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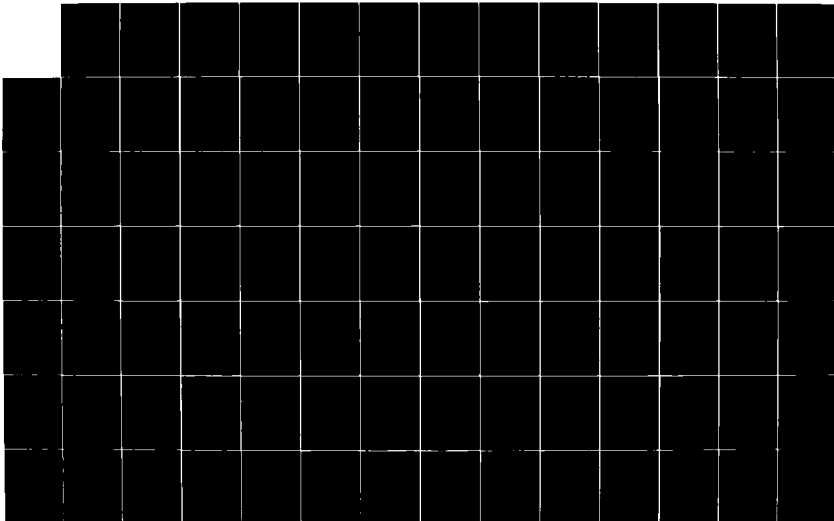
FEUCHT AAF GERMANY (WEST) REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBS.. (U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. MAY 83
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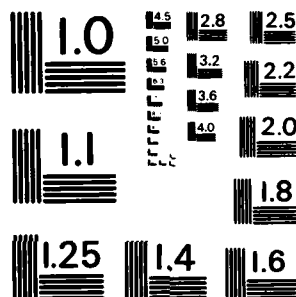
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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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DS #15-0

DATA PROCESSING DIVISION
USAFETAC
Air Weather Service (MAC)

REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBSERVATIONS

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955. WIND DIRECTION:
956. WIND SPEED:
957. CLOUDS:
958. VISIBILITY:
959. WEATHER:
960. COMMENTS:
961. SIGNATURE:
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1005. TIME OF OBSERVATION:
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1115. WEATHER:
1116. COMMENTS:
1117. SIGNATURE:
1118. DATE:
1119. TIME:
1120. LOCATION:
1121. ELEVATION:
1122. TIME OF OBSERVATION:
1123. OBSERVER:
1124. WIND DIRECTION:
1125. WIND SPEED:
1126. CLOUDS:
1127. VISIBILITY:
1128. WEATHER:
1129. COMMENTS:
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1132. TIME:
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1168. COMMENTS:
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Review and Approval Statement

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This technical report has been reviewed and is approved for publication.

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) <table border="0"> <tr> <td>*RUSSWO</td> <td>Daily temperatures</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative Humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>			*RUSSWO	Daily temperatures	Atmospheric pressure	Snowfall	Extreme snow depth	Extreme surface winds	Climatology	Sea-level pressure	Psychrometric summary	Surface Winds	Extreme temperature	Ceiling versus visibility	Relative Humidity	*Climatological data	(over)
*RUSSWO	Daily temperatures	Atmospheric pressure															
Snowfall	Extreme snow depth	Extreme surface winds															
Climatology	Sea-level pressure	Psychrometric summary															
Surface Winds	Extreme temperature	Ceiling versus visibility															
Relative Humidity	*Climatological data	(over)															
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) <p>This report is a six-part statistical summary of surface weather observations for</p> <p>FEUCHT AAF, GERMANY (WEST)</p> <p>It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (Daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric (over)</p>																	

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19. Percentage frequency of distribution tables
Dry-bulb temperature versus wet-bulb temperature
Cumulative percentage frequency of distribution tables

*GERMANY (WEST)

*FEUCHT AAF

*

20. Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurrence or cumulative percentage frequency of occurring tables.

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20-11-15-12-05-23-2

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Since Feucht AAF, DL is a part time observing station, we partitioned the data to use only those observations from 0500Z to 1600Z. The hourly data 1600Z to 2400Z were not used in the production of this summary. This is done to reduce any bias in the summaries which could result from using those infrequent observations outside the normal operating hours.

This RUSSWO must be used with caution. The title page contains a stamped entry "Data Not Available" next to those summaries that are not included, i.e., 24-hour Precipitation. This station being closed on weekends and holidays obviously renders this summary as questionable (is the data for 24, 48 or 60 hours at beginning of new week?)

The remaining summaries contain serious misleading values that if used would present gross inaccurate climatology for the station, therefore the "ALL ALL" summaries were removed (because they do not represent the "ALL" hours summaries):

SECTION A Weather Conditions

SECTION C Surface Winds

SECTION D Ceiling Versus Visibility

SECTION E Psychrometric Summary and Relative Humidity

The remaining Hourly Summaries must be used with caution and the following values are listed: TOTALS, MEANS AND STANDARD DEVIATIONS. (The values are for 0500Z to 1600Z only and not for a 24 hour period).

The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WMO number with the addition of a suffix zero; or, in cases where there is no designated WMO number, a 5-digit number created in agreement with WMO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.

U.S. AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

HOURLY OBSERVATIONS

DAILY OBSERVATIONS

DESCRIPTION OF SUMMARIES

PART A. WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA DATA NOT AVAILABLE

PART B. PRECIPITATION DATA NOT AVAILABLE

SNOWFALL DATA NOT AVAILABLE

SNOW DEPTH DATA NOT AVAILABLE

PART C. SURFACE WINDS

PART D. CEILING VERSUS VISIBILITY

SKYCOVER

PART E. DAILY MAX. MIN. & MEAN TEMP. DATA NOT AVAILABLE

EXTREME MAX & MIN TEMP. DATA NOT AVAILABLE

PSYCHROMETRIC DRY VS WET BULB

MEAN & STD DEV

DRY BULB, WET BULB & DEW POINTS

RELATIVE HUMIDITY

PART F. STATION PRESSURE

SEA LEVEL PRESSURE DATA NOT AVAILABLE

STANDARD 3-HOUR GROUPS

MISSING HOUR GROUPS

1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____

STATION NO ON SUMMARY		STATION NAME		LATITUDE		LONGITUDE		FIELD ELEV (FT)		CALL SIGN		WMO NUMBER	
107640		FEUCHT AAF GERMANY		51 22 0		E 011 11		1265		FDIG		107640	
STATION LOCATION AND INSTRUMENTATION HISTORY													
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY				
			FROM	TO			FIELD (FT)	HT. BARO.					
1.	FEUCHT, GERMANY	AAF	Jan68	Dec70	N 51 23	E 011 11	1260	N/A	11 to 12				
2.	SAME	Same	Jan71	Oct71	Same	Same	Same	N/A	11 to 12				
3.	SAME	Same	Nov71	Dec72	Same	Same	1265	1245	24				
4.	Same	Same	Dec 73	Oct 82	Same	Same	Same	1244	11 to 12				

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS: ADDITIONAL EQUIPMENT OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Jan68 to Aug69	Located 3/10 of a mile SW of Weather station	AN/GMC-11	Non	28ft	
2.	Sep69 to Dec70	Same	Same	AN/GMC-11	28ft	
3.	Jan71 to Dec73	Same	AN/GMC-20	Same	30ft	
4.	Dec 73 to Oct 82	Same	Same	Same	30ft	

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A

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than 5/8 mile.

FEDERAL CLIMATOLOGY BRANCH
 AFM TAC
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 1947 FEGUCH AAF CL 73-81 JAN
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (EST.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JAN	1-22												
	23-31												
	1-22	.1	11.5	1.2	13.1	.1	25.0	53.6	1.4			55.1	776
	23-31		11.3	1.1	16.2		26.5	45.8	7.2			72.4	797
	1-14		12.8	.5	14.3		25.5	78.7	13.2			41.9	795
	15-17		11.0		13.4		23.4	59.3	15.0			44.0	527
	18-2		12.7		9.9		19.9	45.9	10.5			55.4	181
	3-23												
TOTALS		.0	11.9	.6	13.4	.2	24.1	40.7	9.5			50.1	3176

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

WEATHER CONDITIONS

1964 FEBRUARY 73-81
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
FEB	1-30												
	1-5		11.1	.1	9.7		19.8	54.3	4.7			53.1	730
	6-11		5.9		11.9		21.2	36.9	14.6			51.5	759
	12-14		5.1		9.1	.1	16.5	18.7	19.1			37.7	756
	15-17		5.4		1.2		17.4	13.4	17.6			31.1	587
	18-20		6.6		6.6		15.1	25.0	17.8			43.5	152
	21-23												
TOTALS			7.2	.2	9.5	.1	18.0	29.6	14.7			44.4	2985

CLIMATE CLIMATOLOGY BRANCH
 USAFETAC
 AT WEATHER SERVICE/MAC

WEATHER CONDITIONS

1954-1955 FROUGHT AAF DL 73-81
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
01-02													
03-04													
05-06			10.5		7.5		16.7	47.7	5.5			70.5	425
07-08			11.2		7.3		17.2	22.2	10.6			74.9	534
09-10			9.3		4.8		13.5	7.9	15.3			27.2	426
11-12			11.2		3.8		12.8	5.1	15.2			70.3	555
13-14			10.9		3.1		11.9	8.3	20.7			25.7	193
15-16													
17-18													
19-20													
21-22													
23-24													
TOTALS			10.5		5.7		14.3	18.1	14.7			70.0	3755

JUNIOR CLIMATOLOGY BRANCH
USAFETAC
AFW WEATHER SERVICE/MAC

WEATHER CONDITIONS

17547 STATION HEIGHT AAF CL 73-81 YEARS 899 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS -LST-	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
10-12													
13-15													
16-18			11.7		7.4		17.3	39.2	11.3			5.4	759
19-21			11.8		5.8	.1	15.3	9.9	14.5			24.4	808
22-24		.2	12.2		6.7		16.0	2.2	4.3			5.5	806
25-27		1.0	11.5		3.6	.2	13.8	2.0	3.0			4.9	817
28-30			15.6		2.8		17.3	1.1	2.8			7.9	170
31-23													
TOTALS		.2	12.3		5.1	.1	15.9	11.9	7.2			16.0	3232

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 76- STATION 73-81 MAY
STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS EST	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
MAY	1-31												
	1-31												
	1-31		11.9		.4		14.1	26.9	12.7			37.6	813
	1-31	.1	11.1		.1		10.1	4.8	12.4			17.2	821
	1-31	.7	11.8		.1		11.8	.9	5.3			6.1	819
	1-31	1.5	10.1		.2		10.1	1.2	3.8			5.1	804
	1-31	2.9	9.9		.5		9.9	1.2	4.7			5.8	172
	1-31												
	1-31												
	1-31												
	1-31												
TOTALS		1.0	11.2		.3		11.2	7.6	7.4			14.3	3329

CENTRAL CLIMATOLOGY BRANCH
USAFETAC
AF WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 7647 FEUCHT AAF DL 73-81 JUN
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
JUL	10-32												
	3-15												
	6-7	.3	13.4				13.4	73.4	12.4			47.6	797
	10-11	.1	6.6				6.6	7.0	9.3			16.3	803
	12-14	1.9	8.8				6.8	1.2	3.9			5.1	804
	15-17	2.4	11.5				11.5	.5	1.6			2.1	517
	18-2	3.4	13.7				13.7	1.7	2.3			4.0	177
	21-23												
TOTALS		1.8	11.1				11.1	7.8	5.9			17.7	3166

NATIONAL CLIMATOLOGY BRANCH
 AFMPC
 AT WEATHER SERVICE/MAC

WEATHER CONDITIONS

1954 FLIGHT AAF 73-81 JUL
 STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JUL	1-7												
	8-14												
	15-21	.2	13.2				12.2	73.7	10.9			44.5	627
	22-28	.2	12.1				10.1	9.1	10.7			15.8	835
	29-31	1.7	13.7				13.7	2.9	4.1			7.1	627
	1-7	1.6	11.1				11.1	3.5	2.4			5.9	624
	8-14	2.3	5.8				5.8	5.2	2.9			8.1	173
	15-21												
	22-28												
	29-31												
	1-7												
	8-14												
	15-21												
	22-28												
	29-31												
TOTALS		1.2	11.1				11.1	10.9	6.2			17.1	3274

WEATHER CONDITIONS

AL :

YEARS

MONTH

MONTH	HOURS EST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBS' TO VISION	TOTAL NO. OF OBS
12-22													
17-21													
6-7	.2		6.4				6.4	43.0	9.7			50.7	23
7-11	.2		7.1				7.1	14.2	13.6			27.9	33
17-19	.8		7.5				7.5	2.8	11.8			14.3	33
15-17	3.0		6.6				6.6	2.3	7.2		.2	6.7	641
15-2	2.2		7.3				9.3	2.7	6.2			11.5	17
21-23													
TOTALS	1.3		1.2				8.2	13.5	13.1		.2	27.1	375

WEATHER CONDITIONS

SEP
MONTH

[illegible]

CENTRAL CLIMATOLOGY BRANCH
AFETAC
AT WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 1547 PEUCHT AAF CL 73-81 OCT
STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIR	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
OCT	0-00												
	1-00												
	6-06		12.4		.1		12.4	61.3	1.5			67.5	15
	06-11	.1	13.7		.7		13.7	76.7	11.5			47.5	933
	12-14		13.4		1.2	.1	13.6	14.1	13.3			27.4	834
	15-17		14.7				14.3	9.5	11.2			27.5	544
	18-2		10.3				10.3	21.3	19.5			47.5	174
	21-23												
TOTALS		.0	12.9		.4	.0	12.8	28.6	11.4			47.5	3312

JOINT CLIMATOLOGY BRANCH
AFMPC
AF WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 7541 FREIGHT AAF DL 73-81 NOV
STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
NOV	0-23												
	2-10												
	6-10		10.7		7.9		19.7	51.2	1.5			51.7	797
	11-12		13.3		10.6		22.1	37.9	6.5			44.3	825
	13-14		11.9		7.7		18.1	22.9	10.5			33.4	422
	15-17		12.6		5.6		17.1	22.2	10.4			32.6	585
	18-20		11.3		5.6		16.3	30.0	10.0			40.7	162
	21-23												
TOTALS			10.3		7.9		18.7	32.6	7.8			40.4	3157

JOINT CLIMATOLOGY BRANCH
USAFETAC
ATMOSPHERIC WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 547 STATION NAME FEUCHT AAF DL 73-81 YEARS DEC MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS EST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
DEC	5-22												
	7-10												
	11-13		13.2	.5	15.7		27.2	42.5	1.3			43.7	775
	14-16		13.4	1.0	15.6		26.2	34.1	5.7			39.3	825
	17-19		13.8	.6	13.6		21.3	24.5	7.7			32.2	821
	20-22		1.6	.5	10.1		20.3	26.2	6.1			34.3	606
	23-25		12.7		9.2		21.1	33.6	4.9			38.7	142
	1-23												
TOTALS			11.5	.5	12.1		23.2	32.2	5.5			37.7	3169

U.S. AIR FORCE
 U.S. AIR FORCE
 AIR WEATHER SERVICE/MAC

WEATHER CONDITIONS

1 1941 PEUCHT AAF CL 73-81 ALL
 STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (EST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	ALL	.0	11.9	.6	13.4	.0	24.1	40.7	9.8			5.1	3175
FEB			7.2	.0	8.0	.0	13.0	29.6	14.7			44.4	2985
MAR			1.5		5.2		14.3	18.1	14.7			32.5	3705
APR		.2	12.3		5.1	.1	15.9	10.9	7.2			18.0	3200
MAY		1.0	11.2		.3		11.2	7.0	7.4			14.3	3229
JUN		1.8	11.1				11.1	7.8	5.9			17.7	3186
JUL		1.2	11.0				11.0	10.9	6.2			17.1	3274
AUG		1.3	8.2				8.0	13.0	10.1		.0	27.1	3315
SEP		.7	8.9				8.9	17.8	12.3			30.0	3174
OCT		.0	12.8		.4	.0	12.8	28.6	11.4			40.0	3302
NOV			1.3		7.5		18.7	32.6	7.8			40.4	3150
DEC			11.4	.5	12.1		23.2	32.2	5.5			37.7	3169
TOTALS		.5	10.9	.1	4.5	.0	14.8	20.8	9.4		.0	30.1	38517

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

- *1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- *2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

*Values for means and standard deviations do not include measurements from incomplete months.

2

CLIMATE CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION 1 64 FREIGHT AAF DL STATION NAME 73-21 YEARS JAN NORTH
ALL WEATHER CLASS 1600-1800 HOURS (LST)
CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	.5	.1									1.8	2.5
NNE	.8	.4										1.2	2.0
NE	.5	.5										1.0	2.4
ENE	.2	.4	.4									1.0	3.6
E	.1	.6	.5									1.3	3.7
ESE	.3	.7										1.0	2.5
SE	.1	1.2										1.3	2.5
SSE	.6	.3										1.0	2.8
S	.7	4.4	.4									11.5	3.3
SSW	.2	1.4	.1									1.7	2.9
SW	.7	1.7	.1									2.5	2.3
WSW	.1	1.3										1.4	2.6
W	.2	4.3	2.8	.4								7.7	6.0
WNW	.1	.6	1.9	.3								3.9	6.4
NW	.1	1.7	.1									1.9	5.7
NNW	.7	.4										1.1	4.0
VARBL			4.0	7.0	.1							11.1	10.4
CALM												8.0	
	31.6	21.3	11.5	3.6	.1							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 776

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME FEUCHT AAF DL STATION NAME 73-81 YEARS JAN
CLASS ALL WEATHER MONTH 000-1100
CONDITION HOURLY (LST)

SPEED KNTS DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.0										1.1	3.5
NNE	.1	.3										.4	2.7
NE	.1											.5	2.0
ENE	.1	.4	.3									1.4	4.0
E	.1	2.5	.6	.1								3.4	4.1
ESE	1.0	1.3	.1									2.4	3.5
SE	1.1	2.0	.1									3.3	2.9
SSE	5.0	3.8										8.8	3.2
S	7.8	4.5	.4									12.7	3.3
SSW	1.1	2.0										3.6	2.4
SW	1.1	1.7	.3									2.5	3.5
WSW	1.0	3.0	.3									4.1	3.5
W	1.5	2.0	3.5	.5	.3							5.5	6.6
WNW	.4	1.4	2.0	.8								4.5	7.5
NW		.4	.4	.3								1.1	6.5
NNW	.1	.2	.1	.1								1.3	4.6
VARBL			0.4	2.3								2.7	9.6
CALM												11.0	
	32.2	29.0	14.4	4.1	.7							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 797

2
 FEDERAL CLIMATOLOGY BRANCH
 USAFETAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION LEUCHT AAF DL STATION NAME 73-81 YEARS JA
 CLASS ALL WEATHER MONTH 1-12-1400
 CONDITION

SPEED KNTS D.R	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	.2	.1									2.0	2.1
NNE	.4	.2	.1									1.4	4.4
NE	.5	.2										1.0	7.0
ENE	.1	.2	.3									1.0	4.1
E	1.0	1.2	1.4	.1								3.2	5.0
ESE	1.0	2.0	.1									4.0	3.0
SE	.7	3.5										5.0	3.0
SSE	4.0	.2	.5									9.0	7.0
S	4.0	4.0	.4									10.0	7.0
SSW	2.0	2.5	.1									10.4	3.0
SW	1.0	.5	.1									1.5	4.1
WSW	1.0	2.5	.5									4.5	4.3
W	1.0	5.0	4.3	.5	.3	.1						11.4	7.0
WNW	.2	1.0	2.3	.6	.1							5.3	7.0
NW	.0	1.0	.9	.7								2.4	6.0
NNW	.4	1.0	.1		.1							1.0	5.0
VARBL			7.0	1.9	.3							10.0	9.1
CALM												10.0	
	2.7	36.5	13.2	3.5	.8	.1						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 705

2

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFMTC
 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

STATION: FOUNTAIN BL STATION NAME: 77-81 YEARS: JAN
 CLASS: ALL WEATHER MONTH: 1937-1938
 CONDITION:

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	0.0	0.2									1.0	1.0
NNE	0.0	0.0	0.0									1.0	1.0
NE	0.0	1.0	0.0									1.0	1.0
ENE	0.0	0.0	0.0									1.0	1.0
E	1.0	0.0	0.3									1.3	1.3
ESE	0.0	1.0	0.0									1.0	1.0
SE	0.0	1.0	0.0									1.0	1.0
SSE	0.0	0.0	0.0									10.4	10.4
S	0.0	0.0	0.0									9.7	9.7
SSW	0.0	1.0	0.0									1.0	1.0
SW	0.0	1.0	0.0									1.0	1.0
WSW	0.0	0.0	0.0									1.0	1.0
W	0.0	0.0	0.0	0.5								0.5	0.5
WNW	0.0	1.0	0.0	1.1								2.1	2.1
NW	0.0	0.0	0.0									1.8	1.8
NNW	1.0	1.0	0.0	0.2								2.2	2.2
VARBL			4.3	1.6								5.9	5.9
CALM												14.8	14.8
TOTAL	12.0	3.0	12.8	2.4								120.0	2.3

TOTAL NUMBER OF OBSERVATIONS 626

2

U.S. AIR FORCE CLIMATOLOGY BRANCH
 FORM 12-1
 AIR FORCE SERVICE COMMAND

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION RIGHT AAF DL STATION NAME 77-81 YEARS JAN
 CLASS ALL WEATHER MONTH JAN
 CONDITION ALL HOURS 1-24

SPEED KNOTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.5	.1									.3	3.7
NNE	.4	.1	.1									.7	3.6
NE	.4	.2										1.4	3.6
ENE	.5	.1	.2									1.7	3.9
E	.6	1.1	.7	.1								4.3	4.1
ESE	.8	1.6	.1									3.1	3.4
SE	.5	2.1	.1									3.4	3.1
SSE	.7	1.7	.7									6.7	3.3
S	.6	4.6	.3									18.7	3.5
SSW	.4	2.6	.1									3.1	3.4
SW	.4	1.5	.1									3.2	3.5
WSW	.5	2.3	.2									4.3	3.7
W	.7	4.1	3.5	.5	.1	.7						13.7	6.4
WNW	.5	1.2	2.1	.7	.1							4.5	7.5
NW	.7	.7	.5	.1								1.5	6.7
NNW	.7	1.2	.3	.1	.7							2.3	4.2
VARBL			1.6	2.1	.1							7.8	2.7
CALM												20.5	
	21.7	32.3	14.1	3.5	.3	.7						100.2	3.5

TOTAL NUMBER OF OBSERVATIONS 7175

JOINT CLIMATE BRANCH
AFMSTAC
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION DAUGHT AAF DL STATION NAME 77-01 YEARS 1957-1958 MONTH 1957-1958
ALL WEATHER
 CLASS
 CONDITION

SPEED KNOTS: DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	3.0	1.6										2.1	2.3
NNE	.5	.4	.1									2.1	2.3
NE	1.4	1.4	.3									2.1	2.3
ENE	.5	.5	.7									2.1	2.3
E	1.4	2.4	.5	.1								3.4	4.7
ESE	.5	.3	.1									3.4	4.7
SE	3.7	.2										4.5	2.4
SSE	1.1	2.4										6.5	2.4
S	7.0	3.7	.1									1.1	3.7
SSW	1.4	.4	.4									2.5	3.4
SW	.5	1.4										3.4	3.7
WSW	1.1	1.5	.1									3.7	3.7
W	1.8	2.6	1.2									3.5	4.7
WNW	.4	.7	.9									3.7	5.7
NW	.1	.3	.1									3.5	3.7
NNW	.5	1.2										3.4	3.7
VARBL			.1	.3								3.4	5.7
CALM												3.7	
	35.7	22.9	7.8	.4								100.0	2.3

TOTAL NUMBER OF OBSERVATIONS

775

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFM 7-100
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION FOUNT AAF OL STATION NAME 77-91 YEARS 1960-1969 MONTH ALL
 CLASS ALL WEATHER HOURS 1-12
 CONDITION

SPEED KNTS. DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.0	.1									1.0	3.2
NNE	.1	1.0	.4									1.0	4.4
NE	.1	1.0	.4									1.0	4.4
ENE	.1	1.3	.1	.1								1.0	5.7
E	.1	4.0	2.0	.3								3.0	5.0
ESE	.1	2.1	.1									4.0	5.5
SE	.4	1.0	.3									5.0	2.0
SSE	.1	.1										5.0	2.0
S	.7	.1	.5									6.0	2.0
SSW	.1	.1	.1									4.0	2.0
SW	.1	1.0	.3									4.0	2.0
WSW	.1	2.5	.1									5.0	2.0
W	.1	4.1	1.1	.3		.1						5.0	2.0
WNW	.1	.3	1.1	.1								1.0	7.0
NW	.1	.3	.3									1.0	7.0
NNW	1.0	1.0	.1									5.0	2.0
VARBL	.1	.1	.1	.7	.1							5.0	2.0
CALM												1.0	2.0
TOTAL	1.4	22.7	13.1	1.5	.1	.1						100.0	2.6

TOTAL NUMBER OF OBSERVATIONS 753

1
2
1

U.S. AIR FORCE
CLIMATE BRANCH
STATION
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION RECHT AAF NL STATION NAME 73-81 YEARS 50
CLASS ALL WEATHER MONTH 12-14
CONDITION

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.5	.7									4.4	3.7
NNE	.2	2.7	.9									3.4	5.1
NE	.7	1.3	.7									3.6	5.6
ENE	.4	2.1	1.1									3.6	5.8
E	.4	4.1	2.2	.1								6.9	5.7
ESE	.6	3.5	.7									5.3	4.8
SE	.3	3.3	.8									5.4	4.1
SSE	.1	2.2										7.4	4.2
S	3.7	2.4	.1									7.4	3.4
SSW	.7	2.7	.1									4.3	3.5
SW	.9	2.6										4.6	3.6
WSW	.2	2.5	.3									5.1	3.9
W	.7	3.6	2.6	.5	.1							6.6	6.3
WNW	1.1	1.7	1.7	.3								4.8	6.1
NW	.3	.4	.3									1.6	3.3
NNW	.7	2.4	.5									4.6	4.7
VARBL			1.6	1.1								12.6	6.4
CALM												6.2	
	22.6	41.5	23.5	2.7	.1							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 756

2

CENTRAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME BUCHTAAF DL STATION NAME 77-01 YEARS 1957-1958
 CLASS ALL WEATHER MONTH 1507-1958
 CONDITION HOUSE (L & T)

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.7	2.1	0.3									4.2	4.0
NNE	0.7	1.9	0.5									3.7	4.7
NE	0.7	0.9	0.6									3.1	4.6
ENE	0.7	4.0	1.2									5.4	5.0
E	0.7	3.5	2.8	0.2								5.7	5.0
ESE	1.7	3.1	0.5									5.4	4.3
SE	1.4	2.1										3.3	3.9
SSE	0.7	0.7	0.2									0.8	2.0
S	0.7	2.0										6.6	3.1
SSW	3.5	1.2	0.3									2.0	2.0
SW	0.7	1.4										3.5	3.3
WSW	0.7	2.1	0.7									4.7	4.1
W	0.7	5.6	2.1	0.5								10.4	5.5
WNW	0.7	2.4	2.1									5.4	6.0
NW	1.2	1.4	0.2									2.3	3.5
NNW	1.7	1.7	1.2									4.5	4.2
VARBL			0.7	1.4	0.2							9.7	5.7
CALM												7.8	
	0.2	19.1	22.9	2.1	0.2							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

575

1
2J. H. CLIMATE BRANCH
AFETAC
WEATHER SERVICE/MACPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION AFETAC STATION NAME AFETAC YEARS 77-81 MONTH ALL
CLASS ALL WEATHER MONTH ALL
CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	1.7	.3									4.7	3.4
NNE	1.7	1.7	.5									4.9	4.5
NE	1.7	1.7	.4									4.7	4.5
ENE	1.7	2.7	1.1	.1								7.6	5.7
E	1.7	3.7	1.8	.7								7.6	6.7
ESE	1.7	2.7	.7									4.7	4.7
SE	1.7	1.7	.1									4.7	3.7
SSE	1.7	3.7	.1									5.7	3.3
S	1.7	2.7	.7									4.7	3.1
SSW	1.7	1.7	.7									4.7	2.4
SW	1.7	1.7	.1									4.7	2.7
WSW	1.7	2.1	.7									4.7	4.7
W	1.7	3.7	1.8	.3	.7	.7						8.2	5.1
WNW	1.7	1.7	1.7	.1								3.4	6.1
NW	1.7	.7	.3									1.4	4.5
NNW	1.7	1.6	.4									3.8	4.1
VARBL		.1	6.6	.9	.1							7.5	6.5
CALM												5.5	
	2.4	33.5	10.8	1.4	.1	.7						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 1907

U.S. AIR FORCE CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION FEUCHT AAF DL STATION NAME 77-81 YEARS 1950-1959 MAP 1600-7500
 CLASS ALL WEATHER HOURS (LST) 1600-7500
 CONDITION

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N	1.7	2.7	.2									2.0
NNE	1.0	.5	.1									3.0
NE	1.1	.7	.6	.1								4.0
ENE	1.2	1.3	1.5	.2								5.0
E	.1	1.2										3.0
ESE	1.5	1.1										3.0
SE	1.6	.5										2.0
SSE	1.7	2.1										2.0
S	1.6	2.5	.1									2.0
SSW	1.3	1.2										2.0
SW	1.3	.7										2.0
WSW	.2	1.2										2.0
W	1.6	3.5	1.1	.1	.1							3.0
WNW	.5	1.5	.8	.1	.1							3.0
NW	.2	.7	.1									4.0
NNW	1.1	.5	.5									3.0
VARBL			2.9	.2	.2							2.0
CALM												
	27.7	22.2	8.0	.8	.5							2.0

TOTAL NUMBER OF OBSERVATIONS 825

U.S. NAVAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME: HEIGHT AAF FL STATION NUMBER: 77-81 YEARS: 1977-1978 MONTH: ALL
CLASS: ALL WEATHER HOURS: 1100
CONDITION:

SPEED (KNOTS DIR)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1	1.4	.7									2.2	4.5
NNE	1.1	.7	.3	.4								2.4	5.7
NE	.6	.8	.7	.2								2.4	6.5
ENE	.1	1.4	1.7	.4								4.6	6.0
E	.1	3.7	1.2	.4								5.3	6.0
ESE	.4	2.5	.1									3.0	5.7
SE	3.1	2.7	.7									3.7	3.5
SSE	7.8	2.9	.1									6.8	7.3
S	4.7	4.4	.1									7.1	5.5
SSW	.8	3.7										3.5	7.8
SW	1.9	1.7										3.6	7.7
WSW	1.7	3.1	.5									4.9	6.5
W	2.4	3.3	1.1	.1								7.4	5.7
WNW	.5	2.4	1.6	.7								7.2	6.7
NW	.7	1.1	.6	.1								3.7	6.7
NNW	1.7	1.7	.6									3.5	4.5
VARBL			11.4	7.2	.1							14.7	9.5
CALM												5.7	
	20.5	30.0	20.8	5.5	.1							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS: 275

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
NO WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION BEIGHT AAF DL STATION NAME 73-81 YEARS MAC NORTH 1000-1400
CLASS ALL WEATHER HOURS (LST) 1000-1400
CONDITION

SPEED KNOTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	1.7	.4	.1								3.9	5.0
NNE	.7	1.7	.9	.1								3.0	5.7
NE	.5	1.1	1.1	.1								6.3	5.3
ENE	.7	1.7	1.2	.4								7.7	6.9
E	.7	2.6	1.1	.2								4.6	5.6
ESE	1.4	2.6	.4									4.6	4.5
SE	.1	3.6	.5									5.1	4.8
SSE	.7	2.6	.1									4.4	4.1
S	.2	2.6	.2									4.2	4.5
SSW	.7	4.6										6.6	4.3
SW	.7	2.6	.5									4.1	4.7
WSW	.2	4.6	.2									5.4	4.5
W	1.4	2.1	1.7	.2								9.3	5.2
WNW	.9	2.2	2.2	.4	.1							6.7	6.3
NW	.3	2.5	.5	.2								4.2	5.3
NNW	.1	2.4	1.2									4.7	5.1
VARBL		.1	17.6	5.9	.1							23.1	9.1
CALM												1.7	
	17.2	44.4	29.0	7.7	.2							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 635

U.S. NAVAL CLIMATOLOGY BRANCH
USAFETAC
ATMOSPHERIC SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME FOUCHT AAF DL STATION NAME 77-81 YEARS 44 MONTH 15
CLASS ALL WEATHER HOURS (LST) 1500-1700
CONDITION

SPEED KNTS. DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.4	1.2									2.6	5.3
NNE	.1	1.4	1.4	.7								2.6	5.1
NE	.7	1.1	.6	.6								2.7	5.3
ENE	.7	2.3	1.4	.6								4.5	7.7
E	.7	2.6	1.5	.5								5.2	5.5
ESE	2.4	3.7	.3									6.5	4.7
SE	.1	2.7										2.2	3.9
SSE	1.2	2.6										2.3	3.4
S	1.6	2.6	.2									4.5	3.5
SSW	1.6	2.7	.3									4.5	4.2
SW	.7	2.1										1.9	4.7
WSW	2.5	2.6	.3									4.7	4.1
W	.7	3.5	2.7									7.4	5.7
WNW	1.8	3.3	4.1	.5								6.7	6.5
NW	1.1	2.3	1.1	.2								4.5	5.7
NNW	1.4	2.7	.9	.2								4.4	4.8
VARBL			12.7	4.1	.2							16.9	5.2
CALM												3.3	
	2.3	41.3	27.8	7.1	.2							100.2	5.6

TOTAL NUMBER OF OBSERVATIONS 651

2

JOINT CLIMATE LOGIC BRANCH
 AFMSTAC
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION BUCHI AAF OL STATION NAME 73-01 YEARS 4 MONTH ALL
 CLASS ALL WEATHER
 CONDITION ALL

SPEED (KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	1.2	.6	.7								2.2	4.5
NNE	.7	1.2	.6	.2								2.1	5.1
NE	.7	1.2	.7	.7								2.7	5.2
ENE	.7	1.3	1.3	.4								4.2	6.2
E	1.3	2.3	.9	.2								4.2	5.2
ESE	.2	2.4	.2									4.3	3.3
SE	2.4	2.7	.2									4.3	3.6
SSE	.2	2.4	.1									5.7	2.2
S	2.7	2.9	.1									6.6	2.4
SSW	.2	2.9	.1									5.1	3.2
SW	1.2	1.3	.1									3.3	2.9
WSW	1.3	2.7	.2									4.7	4.2
W	2.2	4.2	1.4	.1	.7							5.7	5.1
WNW	.2	2.1	2.1	.4	.1							5.5	6.2
NW	.6	1.6	.6	.1								2.2	5.4
NNW	.2	1.7	.7	.7								2.7	4.6
VARBL		.7	1.5	2.2	.1							12.2	2.2
CALM												11.6	
	1.6	36.2	42.5	4.0	.2							122.2	4.7

TOTAL NUMBER OF OBSERVATIONS 734

JOINT CLIMATOLOGY BRANCH
AFSTAC
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION BUCHT AAF NL STATION NAME 77-81 YEARS 480
 MONTH ALL WEATHER CLASS 400-800
 HOURS (LST) CONDITION

SPEED (KNTS) D.R.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.1	3.7	0.4									7.9	7.7
NNE	1.0	1.3	0.3									1.6	4.1
NE	1.1	1.7	0.6									1.5	4.0
ENE	0.0	0.6	0.9									1.5	4.0
E	0.0	1.0	0.7									3.5	4.0
ESE	1.0	0.0										2.6	2.7
SE	0.0	0.0	0.1									1.0	2.5
SSE	4.7	0.0										4.7	2.1
S	4.0	1.0										5.0	2.0
SSW	0.1	0.0	0.1									0.2	2.0
SW	1.4	0.0	0.1									1.5	2.0
WSW	0.0	1.0										1.0	2.0
W	1.0	2.6	0.9	0.5	0.1							5.0	0.6
WNW	0.4	0.0	1.3	0.1								2.8	0.4
NW	0.0	1.1	0.6									1.7	4.7
NNW	0.6	3.4	1.1									5.1	4.7
VARBL			0.0	0.5								4.4	0.4
CALM												70.3	
	50.0	22.5	11.0	1.1	0.1							100.0	2.0

TOTAL NUMBER OF OBSERVATIONS 709

JOINT CLIMATE BRANCH
AFMTC
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: FUCHT AAF DL STATION NAME: 77-01 YEARS: 1960 MONTH: 01-12
CLASS: ALL WEATHER HOURS: 1100
CONDITION:

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.1	2.1	2.4									0.7	1.0
NNE	1.7	2.6	1.4									0.7	4.7
NE	0.1	1.2	0.7	0.1								0.7	1.2
ENE	0.1	2.0	1.2	0.4								0.7	1.2
E	0.1	2.0	1.6	0.4								0.7	1.6
ESE	0.2	0.1	0.1									0.3	4.7
SE	0.1	1.7										0.7	3.0
SSE	0.6	0.1										0.7	3.0
S	0.1	0.1	0.1									0.1	3.0
SSW	0.1	1.7	0.4	0.1								0.3	4.0
SW	0.2	1.2	0.5									0.1	4.0
WSW	0.1	0.6	0.5									0.2	4.0
W	1.7	4.0	1.7	0.2	0.1							0.7	6.0
WNW	0.1	2.0	1.0	0.7	0.1							0.5	7.0
NW	0.1	1.1	1.5	0.5								0.2	6.0
NNW	0.1	0.2	0.1	0.1								0.5	6.0
VARBL		0.1	1.0	1.5								0.2	3.0
CALM												4.0	
	20.3	17.1	30.4	4.0	0.1							30.1	6.4

TOTAL NUMBER OF OBSERVATIONS

573

JOINT CLIMATE BRANCH
AFM TAC
AFM WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION RESEARCH AIR PL STATION NAME RESEARCH YEARS 1951-1952 MONTH ALL
CLASS ALL WEATHER HOURS (LST) 120-1400
CONDITION

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.7	2.2	2.2									0.5	5.3
NNE	0.1	1.1	1.1									1.0	6.3
NE	0.1	1.4	1.1	0.1								1.0	5.7
ENE	0.1	1.5	1.6	0.1								1.0	5.1
E	0.1	2.3	0.2	0.4								0.3	5.1
ESE	1.4	2.6	0.2									0.3	4.7
SE	0.1	1.2										1.7	4.2
SSE	1.7	1.7	0.1									1.0	4.4
S	0.7	1.5	0.1									0.5	4.6
SSW	0.1	1.6	0.6									1.4	5.7
SW	0.1	1.0	0.3									1.4	4.5
WSW	1.0	2.7	0.4									1.7	4.5
W	1.0	5.4	1.2	0.0								3.3	5.4
WNW	0.1	2.5	2.2	0.7								7.1	7.7
NW	0.1	2.1	1.7	0.7								6.2	6.7
NNW	1.1	4.2	2.1	0.4								7.6	5.7
VARBL			0.7	3.5								2.2	6.4
CALM												1.4	
	0.5	40.6	35.5	7.1								102.2	6.2

TOTAL NUMBER OF OBSERVATIONS 575

CLIMATE CLIMATOLOGY BRANCH
 WEATHER SERVICE/AMC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION FOUGHT BAF DL STATION NAME 77-81 YEARS 1977-1978 MONTH ALL WEATHER
 CLASS ALL WEATHER CONDITION ALL WEATHER

SPEED KNOTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	5.3	1.7	0.2								7.8	4.5
NNE	0.5	1.5	1.5	0.2								4.0	5.0
NE	0.5	1.5	1.7	0.2								4.0	5.0
ENE	0.5	2.0	2.0	0.2								5.3	6.0
E	0.5	3.0	0.5	0.3								6.0	4.0
ESE	2.3	1.2	0.5									4.0	3.0
SE	0.7	1.7	0.2									0.0	4.0
SSE	1.2	0.2										0.0	3.0
S	0.7	1.7	0.2									0.0	4.0
SSW	1.2	2.0	0.3									4.1	4.0
SW	0.7	1.5	0.5									0.3	5.0
WSW	0.5	2.0	0.3	0.2								3.0	4.0
W	0.2	0.5	3.2	1.0								11.0	5.0
WNW	0.5	3.0	2.0	0.5								7.3	6.0
NW	1.0	3.0	2.0	0.0								7.0	6.0
NNW	1.2	3.0	2.8									7.1	6.0
VARBL			1.4	1.0								16.7	6.0
CALM												1.0	

TOTAL NUMBER OF OBSERVATIONS 1000

2
 NATIONAL CLIMATOLOGY BRANCH
 AFMTC
 AIRCRAFT SERVICE/MAO

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION COCHISE AFB AZ STATION NAME 77-91 YEARS 1977 MONTH ALL
 CLASS ALL WEATHER
 CONDITION

SPEED KNOTS D.R.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.3	3.7	1.4	.7								7.2	4.7
NNE	.1	1.0	1.2	.1								4.3	3.7
NE	.0	1.0	1.1	.1								2.4	3.0
ENE	.1	1.0	1.3	.2								1.9	2.1
E	.1	2.6	.0	.3								2.0	4.7
ESE	.0	2.1	.2									3.0	4.7
SE	.0	1.7	.1									2.2	3.9
SSE	.0	1.0	.0									3.7	3.9
S	.1	1.0	.0									4.0	2.6
SSW	1.0	1.0	.3	.0								3.4	4.1
SW	.0	1.0	.3									2.2	4.2
WSW	.7	2.3	.3	.0								4.4	4.0
W	1.7	4.4	1.7	.6	.1							5.6	6.9
WNW	.7	2.2	2.3	.6	.0							5.6	6.9
NW	.0	2.1	1.4	.5								4.3	6.7
NNW	1.0	3.0	2.0	.1								7.4	6.7
VARBL		.0	12.7	1.7								14.4	8.4
CALM												12.3	
	62.0	35.2	27.3	4.3	.1							122.2	5.7

TOTAL NUMBER OF OBSERVATIONS 7192

PAAL CLIMATELOGY BRANCH
 USAFETAC
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 5010 HT 3500 FT STATION NAME 71-21 YEARS 1951-1952 MONTH NOV
 CLASS ALL WEATHER HOURS (L.S.T.) 0100-0800
 CONDITION

SPEED KNOTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	1.2	.4	.1								3.7	3.4
NNE	1.5	.2	.2									2.7	3.1
NE	.7	1.4	.4									3.2	4.7
ENE	.5	1.3	1.1	.1								3.9	5.4
E	.1	3.4	1.5	.2								7.3	4.9
ESE	.7	1.5	.2	.1								3.3	3.4
SE	.7	.7										1.4	2.5
SSE	.3	.4										4.3	1.9
S	.5	1.2										1.7	2.1
SSW	.2	.7										3.7	2.4
SW	1.5	.5	.2									2.7	3.7
WSW	.3	1.4										2.3	3.3
W	.1	1.3	1.1									5.1	4.9
WNW	.1	.3	.5									4.1	5.3
NW	.4	1.6	.2	.1								2.3	5.1
NNW	1.5	2.3	.6									4.9	4.2
VARBL		.4	2.7	.5								2.3	6.7
CALM												3.3	
	33.2	23.7	6.5	1.2								122.2	2.2

TOTAL NUMBER OF OBSERVATIONS 513

2

JOINT CLIMATE BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION 10477 FORTY AAF DL STATION NAME 77-81 YEARS MAY MONTH
ALL WEATHER CLASS 200-1100 HOURS LST
CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	4.3	2.7	.7									7.6	2.7
NNE	2.4	1.2	.5	.1								4.4	1.4
NE	.6	1.7	.4									2.7	1.2
ENE	1.2	1.7	1.2	.1								4.2	1.4
E	1.2	4.4	2.3	.4								8.3	2.7
ESE	1.2	3.2	.4									4.8	1.4
SE	1.2	1.7	.2									3.1	1.4
SSE	1.2	2.1										3.4	1.4
S	1.2	2.3	.1									4.6	1.4
SSW	1.2	1.2	.1									2.9	1.4
SW	1.2	1.6	.1									2.9	1.4
WSW	1.1	3.6	.1									4.8	1.4
W	3.7	4.4	1.7	.2								10.0	4.6
WNW	2.1	3.2	1.1	.2								7.2	4.6
NW	1.2	1.2	1.1									4.4	4.6
NNW	1.2	2.8	.6									4.9	4.6
VARBL		.1	11.2	1.2	.1							13.3	4.9
CALM												3.3	
	30.7	41.2	21.2	2.9	.1							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

521

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION AF HT AAF DL STATION NAME 73-51 YEARS 1950-1951 MONTH ALL
CLASS ALL WEATHER HOURS (LST) 1000-1400
CONDITION

SPEED KNOTS D.P.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	2.7	1.6									6.7	4.7
NNE	0.0	1.0	0.4									2.1	4.7
NE	0.0	0.3	0.4									0.9	5.3
ENE	0.0	2.1	1.3	0.4	0.4							4.0	7.0
E	1.0	7.7	1.1	0.4								9.3	5.3
ESE	1.0	2.4	0.5									4.0	4.4
SE	0.0	1.3										1.6	4.0
SSE	1.1	2.1	0.1									3.3	4.3
S	1.7	2.0										3.7	3.4
SSW	1.0	3.2	0.2									4.9	4.3
SW	1.1	1.4										2.5	4.1
WSW	1.0	2.6	0.5									4.5	4.5
W	1.5	5.6	1.2	0.2								8.5	5.0
WNW	0.0	4.4	2.6	0.4								7.4	5.0
NW	0.6	7.1	0.9	0.2								8.8	5.6
NNW	1.0	4.2	1.2	0.1								6.5	5.1
VARBL		0.1	15.7	7.1	0.4							24.3	4.1
CALM												1.5	
	10.4	44.0	28.7	4.8	0.7							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

610

FEDERAL CLIMATOLOGY BRANCH
 WASHINGTON, D.C.
 STATION - SPTVIEL/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION SPTVIEL/MAC STATION NAME SP-81 YEARS MAY
 CLASS ALL WEATHER MONTH 1974
 CONDITION 15-1700
 HOURS (LST)

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.7	2.5	0.3									0.2	0.3
NNE	1.0	2.0	1.2									0.2	0.3
NE	0.7	1.0	0.6	0.2								0.3	0.3
ENE	1.0	2.2	1.3	0.7								0.2	0.5
E	1.0	4.2	1.7	0.7								1.3	0.7
ESE	0.7	4.7										0.2	4.4
SE	0.7	1.0	0.2									2.0	3.2
SSE	1.0	1.0										0.2	4.1
S	1.0	2.2										4.0	3.0
SSW	1.0	2.2										4.0	3.7
SW	0.7	2.0										2.0	4.0
WSW	1.0	3.2	0.2									2.0	4.7
W	0.2	4.0	1.2									7.7	4.0
WNW	1.7	3.2	2.9	1.5								3.2	5.0
NW	1.2	2.7	1.7	0.2								5.7	5.4
NNW	0.7	3.7	1.8									7.5	5.0
VARBL			13.0	2.0	0.7							15.0	9.3
CALM												2.0	
	11.2	43.0	76.9	6.2	0.2							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 509

U.S. AIR FORCE CLIMATOLOGY BRANCH
 WASHINGTON, D.C.
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME RECHT AAF DL YEAR 73-81 MONTH ALL
 CLASS ALL WEATHER
 CONDITION

SPEED KNTS- DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.6	.0	.7								0.4	4.1
NNE	1.1	1.7	.6	.7								1.4	4.7
NE	.0	1.8	.4	.7								0.0	0.0
ENE	.0	2.0	1.3	.7	.1							4.1	0.3
E	1.0	3.0	1.7	.4								7.8	5.4
ESE	1.4	2.0	.3	.7								4.5	4.3
SE	1.4	1.0	.1									1.7	3.0
SSE	2.0	1.0	.0									3.0	2.2
S	1.0	1.0	.0									4.9	3.0
SSW	1.0	2.0	.1									2.9	2.5
SW	1.2	1.5	.1									2.7	2.2
WSW	1.5	2.4	.2									4.1	4.1
W	2.5	4.0	1.3	.1								5.0	4.7
WNW	1.4	3.6	1.7	.4								7.1	5.7
NW	.9	2.2	1.0	.2								4.2	5.3
NNW	1.5	3.2	1.0	.0								5.9	4.0
VARBL		.0	1.4	2.0	.2							12.7	9.1
CALM												10.5	
	2.5	38.1	21.1	3.6	.2							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 7023

1
2CENTRAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MACPERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION REIGHT AAF CL STATION NAME 77-01 YEARS 1961
CLASS ALL WEATHER MONTH JUN
CONDITION 10-0000
HOURS LL ST

SPEED KNTS D-R	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	1.7	.5									7.1	2.2
NNE	1.1	.6	.2									2.1	3.3
NE	.5	.1	.4	.1								1.1	2.4
ENE	.1	.3	.1	.1								1.1	5.5
E	1.1	1.1	.4									3.7	3.4
ESE	.5	.4										1.0	3.7
SE	.3	.7										2.0	2.1
SSE	.4	.9										4.4	2.3
S	.3	1.7										6.6	2.7
SSW	.8	1.1										4.3	2.8
SW	.7	.9										3.3	2.7
WSW	.4	1.5	.1									2.1	2.9
W	4.7	4.9	1.3									12.9	4.2
WNW	.5	1.5	1.3									4.3	4.2
NW	.1	2.4	.1									3.7	4.2
NNW	2.5	1.0	.4									4.8	3.7
VARBL			1.9	.1								2.2	8.7
CALM												70.3	
	1.2	21.7	6.7	.4								122.2	2.4

TOTAL NUMBER OF OBSERVATIONS 792

U.S. NATIONAL CLIMATOLOGY BRANCH
U.S. AIR FORCE
AF WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1. STATION NAME: STATION NAME YEARS: 77-81 MONTH: JUN
2. HEIGHT AAF: ALL WEATHER CLASS: ALL WEATHER HOURS: 0000-2359
3. CONDITION: ALL WEATHER

SPEED KNTS Dir	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	7.1	4.1	.7	.2								5.2	4.4
NNE	2.7	1.8	.5									4.2	3.6
NE	1.1	.7	.2	.1								2.2	4.3
ENE	1.7	.6	.5	.1								1.1	4.2
E	1.4	3.7	1.5									2.4	4.9
ESE	1.8	2.2	.1									3.9	3.3
SE	1.7	1.7										1.2	3.7
SSE	1.7	.6										2.4	2.9
S	1.9	2.2										4.1	3.4
SSW	1.2	1.4										1.2	3.4
SW	1.7	2.4	.1									4.4	3.6
WSW	2.7	2.7	.5									1.6	3.3
W	3.7	7.6	1.1									12.3	4.8
WNW	1.2	3.4	2.2	.4								7.2	5.7
NW	1.7	2.6	.9	.1								2.1	3.2
NNW	1.1	3.4	1.4									7.9	4.5
VARBL		.1	1.2	1.6								12.2	5.7
CALM												4.2	
	32.6	42.7	20.2	2.6								122.2	4.4

TOTAL NUMBER OF OBSERVATIONS: 223

U.S. AIR FORCE CLIMATOLOGY BRANCH
 AFMTC
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION RECHT AAF OL STATION NAME RECHT YEARS JUN MONTH 1947
 CLASS ALL WEATHER HOURS (L.S.T.)
 CONDITION

SPEED KNOTS D.R.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	4.0	2.5									7.8	5.4
NNE	1.1	3.0	.9	.2								5.2	5.1
NE	.6	.8	1.1									1.2	5.6
ENE	.6	2.1		.1								3.1	4.7
E	1.2	2.1	.1									3.5	4.1
ESE	.7	1.9	.5									3.1	4.3
SE	.4	1.0										1.9	3.7
SSE	.7	1.1										2.1	3.6
S	1.5	1.0										2.6	3.7
SSW	1.6	1.7	.1									3.3	3.5
SW	1.2	1.0										2.1	4.0
WSW	1.2	2.4	.2									4.5	3.2
W	3.1	2.1	2.3									12.7	5.1
WNW	1.5	2.6	2.4	.4								6.3	6.1
NW	.2	3.7	1.6	.1								6.3	5.6
NNW	1.0	3.7	1.1	.2								6.7	4.3
VARBL		.9	17.3	3.7								21.6	6.5
CALM												3.7	
	21.3	40.5	32.3	4.3								100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 674

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AL WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION PEIGHT AAF OL STATION NAME 77-31 YEARS JUL
MONTH 1977
CLASS ALL WEATHER
HOURS 1-1700
CONDITION

SPEED (KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.4	4.3									17.1	5.7
NNE	1.8	3.7	.5									5.7	4.7
NE	.7	2.1	.3	.2								3.7	4.3
ENE	.5	2.6	.3									4.3	5.5
E	1.7	3.1	.3									5.2	4.4
ESE	.5	1.1										1.1	4.1
SE	.7	.5										1.2	3.1
SSE	.5	.5										1.0	2.7
S	1.3	1.5										2.8	3.3
SSW	.1	1.3	.2									2.6	2.4
SW	1.2	1.7	.5									2.3	4.5
WSW	.6	2.7	.3									3.1	4.3
W	1.7	7.1	.3									9.4	4.3
WNW	1.7	5.3	2.1	.5								9.3	5.2
NW	1.7	2.3	1.3	.3								3.5	3.3
NNW	1.2	5.1	1.0	.2								7.7	5.1
VARBL		.7	13.2	2.8								17.2	5.2
CALM												2.5	
	10.2	47.6	26.4	4.2								100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 625

2

JOINT CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1 1940 73-81 STATION NAME YEARS MONTH
STATION NAME YEARS MONTH
ALL WEATHER CLASS ALL
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	4.1	1.9	.1								7.0	4.6
NNE	1.7	2.1	.6	.1								4.5	4.7
NE	.7	1.1	.5	.1								2.3	4.7
ENE	.6	1.4	.4	.1								2.7	5.7
E	1.7	2.3	.6									4.6	4.3
ESE	1.1	1.5	.2									2.6	4.1
SE	1.1	.1										2.4	3.7
SSE	1.5	.2										2.5	2.7
S	2.7	1.4										4.2	3.7
SSW	2.4	1.4	.1									3.3	3.1
SW	1.2	1.6	.1									3.5	3.5
WSW	2.2	2.4	.3									4.9	3.7
W	2.2	6.6	1.5									11.4	4.6
WNW	1.4	3.1	2.2	.3	.3							6.7	5.3
NW	1.2	2.2	1.7	.1								5.1	5.7
NNW	2.4	3.4	1.7	.1								6.9	4.6
VARBL		.7	1.5	1.9								12.7	2.6
CALM												13.1	
	2.4	32.2	29.8	2.7	.2							10.0	4.4

TOTAL NUMBER OF OBSERVATIONS 3176

NAVY METEOROLOGICAL BRANCH
USAFETAC
NAVY WEATHER SERVICE/NAO

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION FLIGHT AAFIL STATION NAME 71-81 YEARS JUL
CLASS ALL WEATHER MONTH JUL
CONDITION 400-1500
HOURS (LST) 1

SPEED KNOTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.1	.1									4.5	2.4
NNE		.1	.2									8.0	4.2
NE													
ENE			.1									1.0	2.0
E		.4	.2									1.0	4.2
ESE	1.3	.7										2.0	2.4
SE	1.7	.2										1.0	2.3
SSE	2.5	.5										4.4	1.4
S	1.5	1.7										9.9	2.1
SSW	1.5	1.1										4.5	2.3
SW	7.1	1.3										5.1	2.7
WSW	4.4	2.4										7.1	2.6
W	2.3	3.3	1.1	.1								7.4	4.5
WNW	1.7	2.3	1.1	.2								1.4	5.2
NW	1.2	1.7	.4									2.9	4.1
NNW	1.5	2.1	.1									4.0	2.3
VARBL		.1	2.2									2.1	5.1
CALM												36.5	
	34.5	10.1	5.4	.4								100.0	2.1

TOTAL NUMBER OF OBSERVATIONS 320

40 METEOROLOGICAL BRANCH
TAC
WEATHER SERVICE/441

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION FLIGHT BASE 12 STATION NAME 77-81 YEARS JUL
CLASS ALL WEATHER MONTH JUL
CONDITION ALL WEATHER HOURS 1800

WIND DIRECTION	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.1	3.6	0.7									3.7	2.7
NNE	0.1	0.1	0.1									0.3	2.4
NE	0.1	0.1	0.1									0.3	4.0
ENE	0.1	0.1	0.1									0.3	4.3
E	0.1	1.0	0.1	0.1								1.2	3.9
ESE	0.1	1.0	0.1									2.1	3.9
SE	0.1	0.1										0.2	3.6
SSE	1.0	1.7										2.7	3.1
S	0.1	2.0										2.1	3.2
SSW	0.1	2.0										2.1	3.7
SW	0.1	2.3										2.4	3.7
WSW	0.1	4.0	0.4									4.4	3.9
W	0.1	7.3	7.2									14.6	5.1
WNW	1.0	5.7	7.2	0.4								14.3	5.3
NW	0.1	2.0	1.7	0.2								3.9	5.0
NNW	0.1	4.0	0.6	0.1								4.7	4.3
VARBL	0.1	0.1	0.4	0.1								0.7	3.1
CALM												6.5	
TOTAL	10.0	40.0	18.6	1.3								70.0	4.4

TOTAL NUMBER OF OBSERVATIONS 180

U.S. AIR FORCE CLIMATOLOGY BRANCH
 W. H. FETAC
 U.S. WEATHER SERVICE/MAO

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION REUHT AAF DL STATION NAME 77-81 YEARS JUL MONTH 1977-1978
 CLASS ALL WEATHER HOUR (LST)
 CONDITION

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	4.0	1.5									3.3	4.3
NNE	1.1	1.3	.5									3.7	3.5
NE	.6	.5	.2									1.3	4.7
ENE	.4	.4	.1									1.1	4.3
E	.5	1.5	.7									2.7	4.5
ESE	.3	1.2	.2									2.3	4.2
SE	.5	1.5										2.5	4.3
SSE	1.2	.7	.1									2.0	3.7
S	1.5	2.1										3.6	3.6
SSW	1.5	1.2										2.7	3.5
SW	.6	1.5										2.1	4.4
WSW	1.5	4.7	.2									6.1	4.2
W	3.5	.5	2.4	.1								6.1	5.1
WNW	.5	5.7	7.7	.5								13.4	6.7
NW	1.1	3.5	.9									5.4	5.7
NNW	.5	4.7	2.4	.1								7.7	5.7
VARBL	.1	.7	15.6	2.2								18.3	5.4
CALM												4.3	
	1.2	44.3	27.3	2.9								87.7	5.7

TOTAL NUMBER OF OBSERVATIONS 877

U.S. NATIONAL METEOROLOGICAL SERVICE
 U.S. AIR FORCE
 U.S. NAVY

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1. STATION ALBANY AAF OH STATION NAME ALBANY AAF OH YEARS 77-81 MONTH JUL
 CLASS ALL WEATHER
 CONDITION ALL WEATHER
 HOURS OF DAY ALL DAY

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	4.7	1.1	.2								0.3	5.2
NNE	1.0	2.1	.6									4.3	4.4
NE	1.1	1.0	.2									2.3	3.0
ENE	.6	1.0										1.3	4.1
E	2.5	1.6	.5									4.3	3.3
ESE	1.7	1.1										2.4	3.3
SE	.5	1.1										1.1	3.5
SSE	.6	.7										1.3	3.8
S	2.2	1.7										3.5	3.1
SSW	1.4	2.1										3.5	3.1
SW	1.0	.5										1.4	2.3
WSW	1.6	2.6	.2									4.3	4.1
W	1.9	7.1	2.1									11.1	5.2
WNW	1.4	6.1	3.2	.6								11.4	6.1
NW	.6	4.8	2.9									7.3	6.1
NNW	1.6	4.3	1.0									5.2	5.3
VARBL		.5	13.9	1.4								15.2	5.4
CALM												7.4	
	1.8	42.1	26.4	2.2								100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 624

2

GENERAL CLIMATOLOGY BRANCH
 AF TAC
 AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION FRONT AAF DL STATION NAME 73-P1 YEARS JUL
ALL WEATHER MONTH ALL
 CLASS ALL
 CONDITION

SPEED KNOTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	7.5	.8	.7								7.1	4.2
NNE	.4	1.5	.3									1.4	3.2
NE	.4	.5	.1									1.0	3.9
ENE	.4	.6	.1									1.1	4.7
E	1.4	1.3	.3	.7								1.0	4.0
ESE	.2	1.1	.1									1.4	3.5
SE	.2	.2										1.5	3.2
SSE	.2	.7	.7									1.6	2.6
S	.2	1.6										1.9	2.5
SSW	.3	1.6										1.9	2.5
SW	.2	1.5										1.4	2.7
WSW	.2	.1	.2									1.4	2.9
W	2.3	7.7	2.1	.1								11.9	5.0
WNW	1.7	5.2	2.9	.4								10.7	5.0
NW	.2	7.0	1.3	.1								8.6	5.2
NNW	.2	3.8	1.2	.1								5.1	4.0
VARBL	.2	.7	7.6	1.7								10.2	5.2
CALM												17.5	
	5.9	36.7	19.2	1.6								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 7272

2

CENTRAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

1 1940 STATION TELCHT AAF DL 77-51 YEARS 1940-1941
STATION NAME MONTH
ALL WEATHER CLASS
CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	2.6	7.8										1.7	1.1
NNE	0.2	0.7										1.0	1.0
NE	0.1	0.7										0.7	1.0
ENE	0.7	0.1										1.1	2.6
E	0.1	1.1	0.1									0.3	1.2
ESE	0.6	0.6										1.1	2.7
SE	0.1	0.1										0.1	2.1
SSE	0.1											0.1	1.0
S	0.4	0.6										0.7	2.0
SSW	0.0	0.7										0.3	2.1
SW	0.3	0.2										2.0	2.1
WSW	0.9	1.0										2.9	3.0
W	0.7	1.2										2.9	3.0
WNW	0.2	1.6	0.6									3.0	4.0
NW	0.1	1.3	0.2									2.0	4.0
NNW	0.9	2.3	0.1									4.3	3.7
VARBL			0.7	0.2								1.0	2.4
CALM												4.7	
	35.9	15.4	1.8	0.2								100.0	1.6

TOTAL NUMBER OF OBSERVATIONS 623

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
ALL WEATHER SE-VIC/MAO

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: FORT RAE, ALaska STATION NUMBER: 73-81 YEARS: 1957-1958
CLASS: ALL WEATHER MONTH: 1957-1958
CONDITION: HOURS: 1957-1958

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.2	0.7	0.1									0.4	0.6
NNE	1.0	2.9										4.9	3.7
NE	0.1	0.2										0.3	0.2
ENE	1.1	0.7	0.2									2.0	3.7
E	1.1	1.0	1.1									4.1	5.2
ESE	0.3	2.6	0.8									5.9	4.7
SE	1.0	2.2	0.1									3.3	3.7
SSE	0.1	1.6										4.7	2.9
S	0.1	2.0	0.1									6.0	2.9
SSW	4.1	1.0	0.1									9.1	2.9
SW	0.4	1.1										3.7	2.9
WSW	4.4	2.7										6.6	2.9
W	0.9	0.1	1.1									7.1	4.4
WNW	1.3	3.7	1.2	0.1								5.9	4.9
NW	1.0	1.1	0.4									2.4	4.3
NNW	0.5	0.2	0.4									0.1	4.7
VARBL		0.7	0.1	0.8								9.1	5.7
CALM												13.1	
	37.7	34.5	13.7	1.0								100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

1
2

FEDERAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION FEUCHT AAF DL STATION NAME FEUCHT AAF DL YEARS 73-81 MONTH ALL
CLASS ALL WEATHER HOURS 1200-1400
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.9	2.2	.8									6.5	4.2
NNE	1.2	1.4	.5	.1								4.1	4.7
NE	1.1	.5	.2									2.2	3.8
ENE	.7	.7	.5									2.3	4.8
E	1.5	3.5	1.6									9.1	5.7
ESE	2.7	2.2	.4									5.2	4.1
SE	1.1	1.1										2.2	3.6
SSE	1.1	1.5										2.6	3.7
S	2.2	1.5										4.3	3.7
SSW	1.6	1.4	.1									4.2	3.4
SW	1.4	1.7	.1									3.2	3.7
WSW	2.4	2.1										5.5	3.7
W	2.5	5.1	1.7	.2								9.9	4.8
WNW	1.7	4.2	.8	.2								7.5	5.7
NW	1.6	2.2	.5									4.2	4.4
NNW	1.2	3.0	1.3	.1								9.6	4.7
VARBL		.1	14.6	1.3								19.0	6.4
CALM												3.9	
	51.6	39.8	22.6	2.2								125.2	4.7

TOTAL NUMBER OF OBSERVATIONS 336

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAL

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION HEIGHT AAF DL STATION NAME 77-P1 YEARS 15 MONTH 0-1700
CLASS ALL WEATHER HOURS (LST) 15 0-1700
CONDITION

SPEED KNTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.0	5.7	0.9	0.3								7.8	4.5
NNE	1.1	1.7	1.1									2.9	4.7
NE	1.0	1.1	0.8									2.9	4.4
ENE	1.1	1.2	0.5									3.3	4.4
E	0.2	2.7	1.2									4.1	4.6
ESE	0.2	2.7	0.3									4.3	3.7
SE	1.4	1.6										3.2	3.5
SSE	1.0	1.2										3.1	2.9
S	0.8	1.2										2.7	4.2
SSW	1.0	1.4	0.3									3.0	3.5
SW	1.0	2.0										4.3	3.2
WSW	0.2	1.2										4.1	3.1
W	2.7	5.9	1.2	0.3								10.1	5.7
WNW	0.7	3.0	1.4	0.5								7.3	5.7
NW	1.1	3.1	1.7	0.5								6.4	5.0
NNW	3.4	3.7	0.8	0.2								8.1	4.3
VARBL			0.9	2.0								12.9	6.6
CALM												4.4	
	30.7	39.8	21.4	3.7								170.2	4.8

TOTAL NUMBER OF OBSERVATIONS 641

JOINT CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE / MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION FOUNTAIN AAF, OK STATION NAME 73-81 YEARS ALL MONTH ALL
CLASS ALL WEATHER HOURS (LST) ALL
CONDITION

SPEED KNOTS D.R.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	3.7	.5	.1								7.2	3.0
NNE	1.0	1.0	.7	.1								2.7	4.0
NE	.0	.3	.2									1.3	4.7
ENE	.9	.2	.4									2.2	4.1
E	2.7	2.1	1.7									4.3	4.6
ESE	.7	2.1	.4									4.4	3.9
SE	1.0	1.2	.1									2.3	3.7
SSE	2.7	1.1										4.2	2.8
S	2.8	1.0	.1									3.2	2.9
SSW	2.7	1.2	.1									4.2	3.7
SW	1.2	1.2	.1									3.4	3.7
WSW	2.7	2.7										4.7	3.7
W	2.6	3.9	.9	.1								7.4	4.0
WNW	1.8	3.5	1.2	.2								5.3	4.2
NW	.2	2.1	.7	.2								4.2	4.9
NNW	.1	3.4	.6	.1								7.2	4.1
VARBL		.1	5.3	1.1								9.4	5.4
CALM												17.3	
	34.4	32.3	14.4	1.7								172.2	3.6

TOTAL NUMBER OF OBSERVATIONS 3214

2
1

1. NAVAL CLIMATOLOGY BRANCH
2. NAVAL WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION RECHT AAF EL STATION NAME 77-81 YEARS SEP
MONTH 6-10-60
CLASS ALL WEATHER
CONDITION

SPEED KNOTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	.5	.1									1.3	2.0
NNE	.5	.5										1.0	2.0
NE	.1		.1									.3	4.5
ENE	.5	.7										.9	2.7
E	1.0	.5										1.1	2.5
ESE	.5	.5										1.1	3.3
SE	.5	.6										4.4	2.7
SSE	.5	1.0										5.7	1.0
S	.4	2.0										11.4	2.3
SSW	.5	.1										7.9	1.0
SW	.5	1.0										4.0	2.7
WSW	.5	1.4										4.4	2.0
W	.1	2.3	.6									5.0	4.0
WNW	.1	1.1	.8									7.0	4.0
NW	.4	.6	.6	.3								1.0	6.5
NNW	1.3	.5	.3									3.4	3.4
VARBL			1.1									1.1	7.7
CALM												41.0	
	41.0	13.4	3.6	.3								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS 500

2

GLOBAL CLIMATOLOGY BRANCH
 AFETAC
 AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME FLIGHT AAF OL STATION NAME 77-81 YEARS NORTH
 ALL WEATHER CLASS
 CONDITION

SPEED KNOTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.7	2.1										4.6	3.2
NNE	1.4	0.9	.1									6.4	3.1
NE	0.9	0.6										1.6	2.3
ENE	1.4	0.7		.1								2.4	3.0
E	1.7	2.0	.2									4.6	4.1
ESE	1.4	1.9	.2									4.7	3.5
SE	0.8	1.7	.1									7.3	3.3
SSE	0.1	2.2										7.7	3.7
S	0.4	4.7	.2									11.6	3.1
SSW	0.8	1.7	.1									2.6	3.7
SW	0.8	2.6	.1									3.2	3.5
WSW	2.5	7.3	.2									5.1	3.9
W	3.1	5.3	1.6									10.6	4.7
WNW	1.2	1.6	2.1	.1								3.1	6.7
NW	0.7	1.4	.9	.2								2.7	6.5
NNW	1.7	1.7	.6									8.1	4.0
VARBL		.1	6.9	.5								7.5	3.1
CALM												11.1	
	40.5	33.2	13.5	1.0								100.0	2.7

TOTAL NUMBER OF OBSERVATIONS

800

U.S. BUREAU OF METEOROLOGY
U.S. AIR FORCE
U.S. WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17-81 STATION NAME FLIGHT AAF CL YEARS SEP
CLASS ALL WEATHER MONTH 12-14-77
CONDITION 12-14-77
HOURS (LST)

SPEED KNOTS D-R	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.3	.2		.1							4.9	4.7
NNE	1.4	1.2	.1									3.1	3.4
NE	.5	1.2	.2									2.7	4.6
ENE	.4	.8	.5									2.1	4.6
E	1.5	2.7	.7									4.6	4.5
ESE	2.6	3.7	.1									5.7	4.7
SE	3.6	1.7	.1									2.7	3.3
SSE	2.7	1.0	.1									4.7	3.4
S	3.7	1.0										4.3	3.1
SSW	2.3	2.1	.1									4.6	3.4
SW	1.6	2.7										4.3	3.3
WSW	2.5	4.3	.2									7.1	4.1
W	2.5	5.4	2.5	.1								12.5	5.4
WNW	1.5	3.7	2.1	.5								7.3	5.9
NW	.6	2.5	1.7	.1								4.2	5.6
NNW	1.9	4.1	.7									5.7	4.4
VARBL			12.5	1.7	.1							15.5	5.6
CALM												4.9	
	6.3	42.5	22.5	2.5	.2							104.2	4.9

TOTAL NUMBER OF OBSERVATIONS 279

2

GENERAL CLIMATOLOGY BRANCH
USAFETAC
17 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION FEUCHT AAF DL STATION NAME 77-81 YEARS SEP
MONTH 1950-1951
CLASS ALL WEATHER
HOURS (L & Y)
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.5	.8									3.3	4.4
NNE	1.0	1.7	.2									2.4	2.7
NE	.6	1.7	.2									1.0	4.1
ENE	1.7	1.7										3.2	2.5
E	2.3	2.0	.3									1.1	3.7
ESE	1.3	2.0	.2									4.0	2.6
SE	1.5	.7										2.5	2.0
SSE	1.7	1.3										3.8	2.3
S	1.4	2.3	.2									5.3	3.7
SSW	2.7	1.0	.5									5.0	7.9
SW	1.3	1.3	.2									3.4	3.1
WSW	1.8	2.3	.2									4.6	7.5
W	4.0	7.0	1.7									13.5	4.5
WNW	2.7	2.0	3.2	.2								5.9	5.7
NW	5.2	2.2	1.7									5.4	4.7
NNW	0.0	3.5	.8									6.4	4.5
VARBL			9.7	1.5								11.2	5.7
CALM												7.5	
	37.7	37.0	12.1	1.7								100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 596

GLOBAL CLIMATOLOGY BRANCH
AFM/TAC
AFM/WEATHER SERVICE/AFAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17-81 MONTH SEP
STATION NAME ALL WEATHER YEARS 17-81
CLASS ALL MONTH SEP
CONDITION ALL HOURS (L & T) ALL

SPEED KNTS. DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	1.0	.7		.7							4.3	7.7
NNE	1.0	.7	.1									1.8	3.7
NE	1.0	.7	.1									1.8	4.0
ENE	1.0	.7	.1	.7								2.1	3.7
E	1.0	1.0	.7									3.3	5.3
ESE	1.0	1.0	.1									3.3	3.0
SE	2.3	.7	.1									3.2	2.0
SSE	4.4	1.0	.7									6.1	2.0
S	5.0	2.4	.1									8.2	2.0
SSW	.7	1.0	.7									3.2	3.1
SW	2.4	2.0	.1									4.4	3.4
WSW	3.5	2.5	.2									6.4	3.7
W	3.7	5.0	1.5	.7								9.9	4.5
WNW	1.6	2.0	1.9	.2								6.7	3.6
NW	.9	1.0	.9	.2								3.3	3.4
NNW	1.0	2.4	.6									4.3	4.0
VARBL		.7	2.5	.9	.7							5.4	3.0
CALM												7.5	
	55.0	27.7	13.0	1.7	.1							122.2	3.5

TOTAL NUMBER OF OBSERVATIONS 1172

1 - 141 CLIMATOLOGY BRANCH
2 - 141 FETAC
3 - 141 WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 - 141 FETAC STATION NAME 77-91 YEARS OCT MONTH
ALL WEATHER CLASS
CONDITION

SPEED KNOTS D.R.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0										1.0	2.0
NNE	1.0	1.0										1.0	2.0
NE	1.0	1.0										1.0	2.0
ENE	1.0	1.0	1.0									1.0	2.0
E	2.0	1.0	1.0	1.0								4.0	3.0
ESE	2.0	1.0	1.0									2.0	2.0
SE	4.0	1.0	1.0									5.0	2.0
SSE	6.0	1.0	1.0									7.0	2.0
S	2.0	1.0	1.0									1.0	2.0
SSW	2.0	1.0	1.0									3.0	2.0
SW	1.0	1.0	1.0									2.0	2.0
WSW	2.0	1.0	1.0									3.0	2.0
W	2.0	1.0	1.0									1.0	2.0
WNW	1.0	1.0	1.0	1.0								2.0	4.0
NW	1.0	1.0	1.0	1.0								1.0	3.0
NNW	1.0	1.0	1.0	1.0								1.0	3.0
VARBL			1.0									1.0	7.0
CALM												35.2	
	4.0	16.1	3.3	4.0								100.0	1.0

TOTAL NUMBER OF OBSERVATIONS 815

JOINT CLIMATOLOGY BRANCH
AFMAG
AFMAG AT FORT MONMOUTH

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 STATION NAME AFMAG STATION NUMBER 77-01 YEARS 00 MONTH 11
CLASS ALL WEATHER HOURS (EST) 010-1100
CONDITION

SPEED KNTS D-R	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			.1									3.7	2.0
NNE			.1									3.7	3.0
NE			.1									3.7	4.5
ENE			.1	.2								4.4	3.0
E	.4	.2	.1	.1								4.7	4.5
ESE	.3	.2										4.6	3.7
SE		.2										5.4	3.0
SSE		.1	.1									1.2	3.0
S	.4	.2										1.2	3.0
SSW	.2	.1										4.3	2.0
SW	.1	.1	.1									3.7	3.0
WSW	.5	.2	.1									5.2	3.5
W	.1	.1	.1	.4		.1						5.4	4.5
WNW	.1	.1	.0	.2								3.7	3.7
NW	.1	.1	.1									1.4	4.0
NNW	.1	.1	.6									2.0	4.0
VARBL			.7									5.3	5.3
CAIM												14.0	
	4.0	3.0	5.5	1.7		.1						10.0	3.4

TOTAL NUMBER OF OBSERVATIONS 533

0
2
1
FEDERAL CLIMATOLOGY BRANCH
USAFETAC
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION COCHISE AFB AZ STATION NAME 73-81 YEARS 20
CLASS ALL WEATHER MONTH 1200-1400
CONDITION HOURLY (LST)

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	N	MEAN WIND SPEED
N	2.2	2.5	.2									4.9	3.6
NNE	1.2	.5										1.7	2.7
NE	.4	.5	.1									1.7	3.9
ENE	.6	.4	.4	.4								1.7	6.1
E	1.4	4.2	.6	.1								6.3	4.7
ESE	3.7	4.7	.1									6.1	3.7
SE	2.2	2.5										5.4	3.4
SSE	2.2	2.5										6.2	3.4
S	4.2	2.2	.2									7.7	3.3
SSW	3.2	2.2										6.1	2.2
SW	1.2	1.4										3.3	3.3
WSW	1.9	2.3	.1									4.2	3.5
W	3.5	6.2	1.8	.8	.1	.1						12.3	5.2
WNW	1.2	3.2	1.2	.4		.2						5.7	6.3
NW	1.2	2.5	.5									4.2	4.6
NNW	2.2	1.4	.4									3.2	3.5
VARBL		.1	.7	1.7								4.8	6.9
CALM												5.1	
	36.2	40.4	13.4	1.3	.1	.4						100.2	4.4

TOTAL NUMBER OF OBSERVATIONS 535

2

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17841 AIRCRAFT AAF OL STATION N-WE 77-81 YEARS 2007 MONTH OCT
ALL WEATHER CLASS 15-0-1700 HOURS LLST
CONDITION

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.4										3.7	2.9
NNE	.2	.6										1.9	2.2
NE	.2	.1	.2									1.9	2.1
ENE	.1	.2	.2	.2								3.3	5.1
E	.3	.7	.5									7.2	3.7
ESE	.4	.2	.2									5.6	3.3
SE	.2	1.1										3.3	3.7
SSE	.1	.2										2.1	2.2
S	.3	1.1										7.9	2.4
SSW	.1	1.4										4.5	2.9
SW	.2	1.1										3.3	3.1
WSW	.3	.2										3.7	2.7
W	4.3	4.7	1.6	.3								12.7	4.4
WNW	.7	3.7	1.2			.2						7.2	5.2
NW	1.6	2.7	.6									4.3	4.5
NNW	1.6	1.5	.7									3.4	3.3
VARBL			6.8	1.1								7.9	3.6
CALM												13.5	
	45.7	27.8	11.6	1.6		.2						122.2	3.4

TOTAL NUMBER OF OBSERVATIONS 644

JOINT CLIMATE BRANCH
USAFETAC
U.S. WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION 10004 HEIGHT AAF PL STATION NAME 77-21 YEARS OCT NORTH
CLASS ALL WEATHER
CONDITION

SPEED KNTS. DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.7	.1									4.7	2.4
NNE	1.7	.7	.1									1.8	3.4
NE	.7	.4	.1									1.7	3.7
ENE	.7	.3	.2	.2								1.7	3.7
E	2.4	2.7	.4	.1								5.7	4.1
ESE	2.7	2.2	.1									5.7	3.3
SE	.4	1.6										5.7	2.9
SSE	5.7	1.9	.7									7.5	2.7
S	7.5	2.3	.1									12.4	2.6
SSW	1.2	1.5										4.7	2.7
SW	1.4	1.3	.7									3.1	3.4
WSW	2.7	1.6	.1									4.2	3.1
W	3.9	4.7	1.2	.4	.2	.1						6.3	4.7
WNW	1.5	2.1	.9	.2		.1						4.5	5.4
NW	1.1	1.5	.3	.7								3.7	4.4
NNW	1.5	1.4	.3									3.2	3.8
VARBL		.7	.1	.9								5.7	6.5
CALM												18.4	
	41.2	29.2	9.1	1.7	.2	.2						100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 7371

2

AFSAL CLIMATOLOGY BRANCH
AFSAL
AFSAL WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION FEUCHT HAF 01 STATION NAME 73-81 YEARS NOV
CLASS ALL WEATHER HOURS (LST) 600-0600
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.4	.5	.5									3.3	3.5
NNE	.5	.5										1.0	3.5
NE	.5	.4	.4									1.3	4.0
ENE	.4	.6	.5									1.5	5.5
E	.5	.7										1.1	2.7
ESE	.5	.1										1.1	2.3
SE	.5	.5	.3									1.3	2.7
SSE	.3	2.8	.1									10.2	2.7
S	1.4	4.8	.1									15.3	3.7
SSW	.5	1.1	.1									4.3	2.8
SW	.5	1.6	.3									5.6	3.2
WSW	2.1	1.8	.1									4.0	3.3
W	2.6	4.4	3.3	.5								10.8	5.6
WNW		1.1	2.1	.1								3.3	7.3
NW	.4	2.7	.1									2.3	4.8
NNW	1.3	1.9	.3	.1								3.8	4.1
VARBL			3.3	1.7	.1							4.4	9.6
CALM												11.8	
	41.0	24.8	11.3	1.9	.1							100.0	3.2

TOTAL NUMBER OF OBSERVATIONS 797

2

GLOBAL CLIMATOLOGY BRANCH
AFGLTAC
WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION RECHT AAF OL STATION NAME 77-81 YEARS NOV
CLASS ALL WEATHER NORTH 900-1100
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	1.0	0.0									4.5	3.7
NNE	0.4	0.5										1.0	3.7
NE	1.0	0.7	0.9	0.1								3.7	5.1
ENE	0.0	0.4	0.7	0.2								1.2	5.7
E	0.4	0.4		0.1								0.9	5.0
ESE	0.0	1.0	0.2									2.0	4.7
SE	1.0	1.0										3.1	3.7
SSE	2.1	3.2	0.5									10.0	3.7
S	0.6	0.0	0.2									14.0	3.1
SSW	2.1	2.0	0.1									5.7	7.4
SW	1.0	2.6	0.5									3.0	4.1
WSW	0.0	3.1	0.5									5.6	4.0
W	1.0	2.9	1.9	0.7								3.0	5.0
WNW	0.0	1.2	2.4	0.5								5.0	5.0
NW	0.1	1.0	0.5									2.0	4.7
NNW	2.5	1.7	0.4									4.0	7.0
VARBL			5.0	1.1	0.2							7.0	0.7
CALM												15.0	
	36.0	19.9	15.2	2.9	0.2							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 600

U.S. AIR FORCE
 CLIMATE BRANCH
 AFMTC
 WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION FEUCHT AAF DL STATION NAME 71-81 YEARS NOV
 CLASS ALL WEATHER NORTH 1700-1400
 CONDITION NOV 1964

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.8	.9									4.7	4.9
NNE	.6	.5	.4									1.5	4.5
NE	.5	1.5	.7									2.7	5.2
ENE	.1	.7	.6	.1								1.5	6.3
E	.4	.7	.7	.1								2.5	5.1
ESE	.1	1.2										2.4	3.3
SE	.1	2.1	.2									4.5	3.8
SSE	4.2	3.1	.6									8.0	3.5
S	3.4	4.4	.4									10.1	3.7
SSW	2.7	2.2	.1									5.7	3.3
SW	2.4	2.2										4.6	3.5
WSW	1.4	4.6	.2									6.2	4.5
W	3.2	6.7	2.9	1.7	.1							13.2	5.0
WNW	1.1	2.2	2.2	.9								6.5	6.7
NW	1.2	1.1	.5	.1								3.3	4.6
NNW	2.1	2.3	.4									5.4	4.1
VARBL			1.1	1.9	.1							11.1	9.2
CALM												7.1	
	29.9	39.7	19.6	4.1	.2							122.2	4.4

TOTAL NUMBER OF OBSERVATIONS 802

USAF CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION FLIGHT AAF DL STATION NAME 71-51 YEARS NOV
CLASS ALL WEATHER MONTH NOV
CONDITION 1500-1700
HOURS LST 1

SPEED KNTS; DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	0.1	1.4	0.3									4.5	3.4
NNE	0.2	0.7	0.2									1.2	0.7
NE	1.2	0.7	0.5									2.2	4.0
ENE	0.4	0.2	0.3	0.2								1.1	4.0
E	0.1	0.1	0.1									1.2	2.0
ESE	0.4	0.7	0.2									2.7	3.1
SE	0.4	0.7										1.1	2.2
SSE	4.6	2.4	0.2									7.2	3.1
S	0.4	3.6	0.2									1.2	3.0
SSW	1.0	1.4	0.9									4.1	4.3
SW	1.4	1.9										3.3	3.0
WSW	0.4	3.4										1.2	3.7
W	0.4	5.5	3.4	0.3								12.5	5.4
WNW	0.1	1.4	2.4	0.2								4.8	6.5
NW	0.1	1.2	0.3									2.2	4.0
NNW	0.1	3.1										5.7	3.6
VARBL			7.0	1.4								8.6	8.0
CALM												15.4	
	37.6	28.0	17.0	2.1								103.0	3.0

TOTAL NUMBER OF OBSERVATIONS 597

GLOBAL CLIMATOLOGY BRANCH
USAFETAC
AT WEATHER SE VIO/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION HEIGHT AAF DL STATION NAME 77-81 YEARS NOV
STATION ALL NORTH ALL
CLASS ALL
CONDITION ALL
HOURS (L & T)

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	1.5	.6									4.4	3.9
NNE	1.6	.5	.3									1.4	4.2
NE	1.4	.4	.6	.7								2.4	4.7
ENE	.4	.4	.4	.1								1.5	5.3
E	.7	.4	.1	.1								1.2	3.5
ESE	1.3	.7	.1									2.1	3.3
SE	1.3	1.7	.1									3.7	3.1
SSE	.5	2.9	.3									2.2	3.1
S	1.5	4.3	.2									17.0	3.2
SSW	1.6	2.7	.3									4.9	3.4
SW	1.3	2.7	.2									4.5	3.6
WSW	1.1	3.3	.2									5.5	4.7
W	1.7	4.9	2.9	.6	.7							11.1	5.7
WNW	.5	1.5	2.2	.4								4.3	6.6
NW	.9	1.4	.3	.1								2.7	4.5
NNW	1.7	2.3	.3	.7								4.5	3.2
VARBL			4.2	1.4	.1							7.7	9.7
CALM												15.3	
	36.0	30.4	15.4	2.6	.2							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 7145

1
2
FEDERAL CLIMATOLOGY BRANCH
USAFETAC
AIR WEATHER SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1 5400 FLIGHT AAF PL 73-81 280 NORTH
STATION STATION NAME YEARS
ALL WEATHER
CLASS
CONDITION

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.0	.3									3.1	4.7
NNE	.0	.0	.1									1.0	2.8
NE	.0	.4	.1									.8	4.2
ENE	.0	.0										1.0	3.1
E	.0	.0	.1	.1								1.0	4.1
ESE	.1	.0	.1									2.7	3.0
SE	.0	1.0										5.7	2.0
SSE	7.0	3.1	.4									10.7	3.0
S	.0	4.3	.1									12.9	3.1
SSW	.1	2.7	.6									8.1	3.0
SW	.1	1.4	.3									3.7	3.0
WSW	1.0	1.7	.0									3.0	3.0
W	2.7	3.4	1.5	.1								7.7	4.0
WNW	.0	1.5	2.1	1.3								5.4	3.0
NW	.0	.5	.9	.1								2.2	3.1
NNW	1.2	.3	.9	.3								2.5	3.7
VARBL			5.7	1.9	.8							9.4	10.2
CALM												19.6	
	37.3	24.0	14.5	3.9	.8							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 775

2

CENTRAL CLIMATOLOGY BRANCH
USAFETAC
ATMOSPHERIC SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

1 STATION FOUCHT AAF DL STATION NAME 77-81 YEARS 1977-1980 MONTH DEC
CLASS ALL WEATHER HOURS (LST) 1977-1980
CONDITION

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.0	.0									1.7	4.2
NNE	.0	.0	.0									1.3	5.3
NE	.0	.0	.0									1.2	4.1
ENE	.0	.0	.0									.5	3.7
E	.0	.0	.0									2.5	4.7
ESE	.0	.0	.0									4.4	7.1
SE	.0	1.7	.1									3.6	3.1
SSE	.0	.0	.0									12.1	3.3
S	7.2	5.0	.5									13.5	7.3
SSW	.0	2.0	.4	.2								6.2	7.2
SW	1.0	1.0										3.3	3.6
WSW	.3	2.3	.1									4.7	5.6
W	.7	.0	1.7	.4								7.4	5.1
WNW	.7	1.2	2.3	.1								4.4	6.6
NW	.0	.0	1.1	.5								2.2	6.3
NNW	.0	1.1	.4	.5								2.3	6.3
VARBL		.1	9.5	1.3	.1							11.2	6.4
CALM												14.2	
	17.6	25.8	17.1	5.0	.1							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 575

U.S. AIR FORCE CLIMATE BRANCH
AFM 1-10
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION EDGHT AAF DL STATION NAME EDGHT AAF DL YEARS 70-81 MONTH DEC
CLASS ALL WEATHER HOURS 1400
CONDITION

SPEED KNOTS DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.1	.4									1.0	4.0
NNE	.5	.7	.5									1.7	5.0
NE	.5	.7	.1									1.3	5.0
ENE	.5	.7	.6									1.8	4.0
E	.5	.7	.6									1.8	5.0
ESE	1.7	1.6	.7									4.0	3.0
SE	2.7	2.4	.1									5.2	3.0
SSE	2.7	.5	.7									4.9	4.1
S	1.1	4.6										5.7	3.0
SSW	3.7	4.6	.7	.1								4.0	4.0
SW	1.2	7.2										4.4	3.0
WSW	2.6	1.7	.1									4.4	3.4
W	2.1	4.7	2.4	.1								5.4	3.4
WNW	.1	2.1	1.9	1.7								5.8	7.4
NW	.4	1.3	1.2	.5								3.4	7.3
NNW	.5	1.0	.4									1.9	4.5
VARBL	.7	.8	1.5	4.1	.9							10.1	6.0
CALM												3.4	
TOTAL NUMBER OF OBSERVATIONS													621

JOINT CLIMATE BRANCH
 AFMPC
 WEATHER SERVICE/PAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

1. STATION 500000 2. CHART AAF 01 3. YEARS 77-81 4. MONTH DEC
 STATION NAME ALL WEATHER CLASS ALL WEATHER DATES 1500-1700
 CONDITION ALL WEATHER HOURS (LST) 1500-1700

SPEED KNTS DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	0.5									2.5	4.4
NNE	0.7	0.3										1.0	4.2
NE	0.7	0.3	0.2									1.2	4.6
ENE	0.7	0.3	0.2									1.7	4.1
E	0.2	1.2	1.0									5.3	4.3
ESE	1.7	1.0	0.3									3.0	3.8
SE	2.3	2.0										5.1	3.4
SSE	0.1	0.1	0.3									1.4	3.2
S	0.1	0.1	0.3									7.6	2.5
SSW	3.5	2.7	0.3									6.2	3.4
SW	1.0	2.3		0.2								4.2	4.1
WSW	2.6	3.5	0.2									6.3	3.3
W	0.3	5.5	2.2	0.7								13.6	5.0
WNW	0.7	1.0	1.5	0.7								4.0	6.6
NW	0.7	0.8	1.2	0.2								2.3	6.7
NNW	1.2	1.0	0.2									2.3	3.6
VARBL			7.3	2.7	0.5							9.8	4.7
CALM												13.4	
	34.1	33.1	15.6	3.3	0.5							110.2	4.2

TOTAL NUMBER OF OBSERVATIONS 624

2

U.S. AIR FORCE
 USAFETAC
 AIRCRAFT SERVICE/MAC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

1. 540 HEIGHT BAF DL STATION NAME 77-P1 YEARS DLG
 STATION MONTH
ALL WEATHER CLASS
ALL HOURS (LST)
 CONDITION

SPEED KNTS. DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	.7									2.3	4.2
NNE	.0	.3	.2									1.5	4.4
NE	.0	.7	.1									1.1	4.3
ENE	.0	.5	.1									1.1	3.8
E	1.5	1.1	.5	.1								3.1	4.2
ESE	.1	1.5	.2									3.5	3.4
SE	.5	2.7	.1									5.2	3.2
SSE	.0	4.3	.3									10.5	3.4
S	.0	4.5	.3									10.5	3.4
SSW	3.5	3.0	.5	.1								7.1	3.0
SW	1.5	2.1	.1	.1								3.9	3.9
WSW	.3	2.3	.1									4.7	3.7
W	3.1	4.1	2.0	.3								9.4	5.1
WNW	.6	1.5	1.9	.7								4.8	7.3
NW	.4	.5	1.1	.3								2.6	7.3
NNW	1.0	.2	.4	.2								2.4	5.2
VARBL	.0	.1	.6	2.8	.5							12.1	9.7
CALM												13.6	
	23.1	31.3	16.8	4.6	.5							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS 7166

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 8	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	≥ 0
NO CEILING																
≥ 1800																
≥ 1500					91.0											92.6
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500										97.4						98.1
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0 .
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0 . From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility > 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

AL CLIMATOLOGY BRANCH

•

REF ID: A66425

CEILING VERSUS VISIBILITY

SECRET 345 06

92-1

461

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM FOURTH OBSERVATION

100-2422

[illegible]TOTAL NUMBER OF OBSERVATIONS 777

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CLIMATE BRANCH

CEILING VERSUS VISIBILITY

STATION: ...

PERIOD: ...

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1000-1100

3.0	5.3	6.7	9.3	11.7	12.0	12.0	13.5	13.5	14.1	14.1	14.3	14.3	14.3	14.3	14.3
7.2	8.4	8.5	12.4	15.7	10.8	17.2	17.8	17.9	19.1	19.1	19.2	19.2	19.2	19.2	19.2
5.0	8.7	9.1	13.0	16.2	16.7	18.1	18.7	18.8	19.9	19.9	20.1	20.1	20.1	20.1	20.1
5.0	8.1	9.0	13.1	16.3	16.8	18.2	18.8	18.9	20.1	20.1	20.2	20.2	20.2	20.2	20.2
5.0	8.2	9.7	13.5	16.7	17.2	18.6	19.2	19.7	20.8	20.8	20.6	20.6	20.6	20.6	20.6
5.1	8.3	9.8	13.6	17.0	17.7	19.2	19.8	19.9	21.2	21.3	21.5	21.5	21.5	21.5	21.5
5.4	8.7	10.0	14.3	17.9	18.6	20.3	21.0	21.1	22.5	22.5	22.6	22.6	22.6	22.6	22.6
7.4	10.8	11.2	15.8	19.6	20.2	22.0	22.6	22.7	24.1	24.1	24.2	24.2	24.2	24.2	24.2
8.3	11.4	13.0	17.8	22.0	22.6	24.6	25.4	25.5	26.9	27.0	27.3	27.4	27.4	27.4	27.4
9.1	12.0	14.0	18.9	23.5	24.4	26.4	27.1	27.3	28.7	28.8	29.2	29.2	29.2	29.2	29.2
9.7	12.4	14.1	19.1	23.6	24.5	26.5	27.5	27.7	29.0	29.2	29.4	29.5	29.5	29.5	29.5
9.8	12.9	15.0	20.3	25.3	26.3	28.4	29.5	29.7	31.1	31.2	31.4	31.6	31.6	31.6	31.6
11.0	14.4	16.8	22.7	27.7	28.8	31.1	32.2	32.3	33.7	33.8	34.1	34.2	34.2	34.2	34.2
12.4	15.4	18.9	25.6	30.8	32.1	34.5	35.6	35.7	37.2	37.4	37.6	37.8	37.8	37.8	37.8
13.4	17.7	20.2	27.1	32.3	33.6	36.4	37.5	37.6	39.1	39.3	39.5	39.8	39.8	39.8	39.8
15.6	19.4	22.1	29.8	36.7	37.2	40.9	42.4	42.7	44.4	44.5	44.8	45.1	45.1	45.1	45.1
16.4	20.5	23.1	31.3	37.6	39.3	43.1	44.6	45.1	46.8	47.0	47.2	47.5	47.5	47.5	47.5
17.1	22.2	25.0	34.2	41.0	42.7	47.0	49.1	49.4	51.8	51.9	52.3	52.5	52.5	52.5	52.5
18.6	23.1	25.0	35.2	42.2	43.8	48.2	50.6	50.9	53.3	53.4	53.9	54.2	54.2	54.2	54.2
20.1	25.3	29.4	39.5	47.0	48.9	54.0	56.7	57.1	60.2	60.1	62.9	61.1	61.1	61.1	61.1
21.0	27.8	31.4	43.7	51.5	53.5	59.7	62.4	63.0	66.0	66.3	67.2	67.4	67.4	67.4	67.4
23.1	29.9	33.7	47.9	55.9	59.2	66.3	69.4	70.2	73.6	73.9	75.1	75.4	75.4	75.4	75.4
24.2	31.1	34.7	46.6	58.0	60.4	67.7	71.0	71.7	75.3	75.6	77.0	77.3	77.3	77.3	77.3
23.4	31.9	37.1	50.0	62.1	62.8	70.5	74.1	74.9	79.0	79.5	80.3	81.1	81.1	81.1	81.1
23.7	31.1	35.1	50.1	60.2	63.1	71.3	75.4	76.1	80.9	81.6	83.1	83.7	83.7	83.7	83.7
21.9	31.2	35.2	50.6	61.0	64.0	72.7	77.1	78.3	83.6	84.7	85.1	85.5	85.5	85.5	85.5
23.0	31.3	35.5	50.9	61.2	64.3	73.6	76.7	79.7	85.9	87.0	88.6	89.1	89.7	89.7	89.7
21.7	31.3	35.5	50.9	61.5	64.6	74.6	80.2	81.3	86.1	89.8	91.1	92.4	92.6	92.7	92.7
23.7	31.3	35.5	50.9	61.5	64.6	74.6	80.7	81.8	88.9	90.9	93.2	94.4	95.1	95.7	96.1
21.9	31.3	35.5	50.9	61.5	64.6	74.6	80.7	81.8	89.5	91.5	94.1	95.7	97.6	98.4	99.2
27.9	31.3	35.5	50.9	61.5	64.6	74.6	80.7	81.8	89.5	91.5	94.1	95.7	97.6	98.7	99.9
27.0	31.3	35.5	50.9	61.5	64.6	74.6	80.7	81.8	89.5	91.5	94.1	95.7	97.6	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 790

USAF ET AL. ...

2

7 8 9

SECRET

CEILING VERSUS VISIBILITY

100-1 2AF 10

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45

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOLLY OBSERVATIONS

100-3-1726

[illegible]

TOTAL NUMBER OF OBSERVATIONS 117

USDA Forest Service, Pacific Southwest Region, San Francisco, California 94117

GLOBAL CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/MAC

CEILING VERSUS VISIBILITY

1. NAME: FAUGHT AAF BL

73-51

JAN

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1.0	1.7	2.4	12.6	14.2	14.4	15.4	15.8	15.8	16.3	16.3	16.5	16.5	16.5	16.5	16.5
1.2	1.7	15.3	16.6	18.6	18.9	20.2	20.8	21.9	21.6	21.7	21.9	21.9	21.9	21.9	21.9
1.6	11.4	17.7	17.2	19.2	19.5	20.9	21.5	21.5	22.3	22.4	22.6	22.6	22.6	22.6	22.6
1.7	11.5	17.6	17.3	19.3	19.6	21.0	21.6	21.6	22.4	22.5	22.7	22.7	22.7	22.7	22.8
1.8	11.6	17.9	17.5	19.6	19.9	21.4	22.0	22.0	22.8	22.9	23.1	23.1	23.1	23.1	23.1
1.9	11.8	18.2	17.8	20.0	20.3	21.8	22.4	22.4	23.4	23.5	23.6	23.6	23.6	23.6	23.7
2.0	12.0	14.7	19.0	21.3	21.7	23.2	23.8	23.9	24.8	24.9	25.0	25.0	25.1	25.1	25.1
2.1	13.5	14.3	19.8	22.2	22.6	24.2	24.8	24.9	25.8	25.9	26.1	26.1	26.1	26.1	26.1
2.2	14.7	16.4	22.5	24.6	25.0	26.8	27.7	27.8	28.7	28.8	29.0	29.1	29.1	29.1	29.1
2.3	15.6	17.4	23.1	26.1	26.5	28.4	29.3	29.4	30.3	30.5	30.7	30.7	30.7	30.7	30.8
2.4	15.7	17.6	23.3	26.2	26.7	28.6	29.5	29.6	30.6	30.7	30.9	30.9	31.0	31.0	31.0
2.5	15.9	18.9	25.0	28.1	28.6	30.8	31.8	32.0	33.0	33.1	33.3	33.4	33.4	33.4	33.4
2.6	16.3	20.6	27.1	30.4	30.9	33.2	34.3	34.6	35.6	35.8	36.7	36.7	36.7	36.7	36.1
2.7	20.1	22.5	29.7	33.2	33.7	36.1	37.3	37.5	38.7	38.9	39.2	39.2	39.2	39.2	39.3
2.8	21.9	24.3	31.7	35.4	35.9	38.5	39.8	40.7	41.2	41.4	41.6	41.7	41.7	41.7	41.8
2.9	23.0	27.1	35.8	40.0	40.6	43.6	44.9	45.3	46.6	46.8	47.1	47.1	47.2	47.2	47.2
3.0	23.2	29.7	37.8	42.1	42.7	45.9	47.3	47.6	49.0	49.2	49.4	49.5	49.6	49.6	49.6
3.1	23.5	31.4	41.1	45.8	46.6	50.3	52.0	52.3	53.8	54.1	54.4	54.5	54.6	54.6	54.6
3.2	23.4	29.3	32.4	42.3	47.0	47.8	51.6	53.4	53.7	55.4	55.6	56.0	56.1	56.1	56.2
3.3	25.4	31.7	35.2	46.8	52.1	53.7	57.2	59.4	59.8	61.8	62.1	62.5	62.7	62.7	62.7
3.4	27.4	34.9	39.1	52.1	54.2	59.3	64.1	66.6	67.3	69.7	70.0	70.6	70.9	70.9	70.9
3.5	28.7	36.9	41.3	56.1	62.9	64.2	69.9	73.2	73.7	76.5	77.7	77.8	78.1	78.1	78.1
3.6	28.8	37.2	41.6	56.8	64.1	65.6	71.6	75.1	75.7	78.6	79.1	80.0	80.2	80.3	80.3
3.7	29.1	37.6	42.0	57.9	65.9	67.5	74.3	78.2	79.9	82.1	82.6	83.5	83.8	83.8	83.8
3.8	29.2	37.7	42.5	58.5	66.8	68.6	76.2	80.3	81.7	84.5	85.2	86.1	86.4	86.5	86.5
3.9	29.3	37.8	42.6	58.9	67.4	69.3	77.1	81.5	82.4	86.2	87.0	87.9	88.3	88.4	88.4
4.0	29.2	37.9	42.8	59.3	67.9	69.8	78.2	83.1	84.1	88.6	89.5	90.5	91.1	91.3	91.3
4.1	29.2	37.9	42.8	59.4	68.4	70.3	79.0	84.2	85.4	90.4	91.7	93.0	93.7	93.9	94.0
4.2	29.2	37.9	42.8	59.4	68.4	70.3	79.1	84.7	85.8	91.4	92.9	94.5	95.6	96.4	96.9
4.3	29.2	37.9	42.8	59.4	68.4	70.3	79.1	84.7	85.9	91.7	93.3	95.2	96.6	97.9	98.3
4.4	29.2	37.9	42.8	59.4	68.4	70.3	79.1	84.7	85.9	91.7	93.3	95.3	96.8	98.3	99.7
4.5	29.2	37.9	42.8	59.4	68.4	70.3	79.1	84.7	85.9	91.7	93.3	95.3	96.8	98.3	99.7

TOTAL NUMBER OF OBSERVATIONS 3151

USAF ETAC 0-1445 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CEILING VERSUS VISIBILITY

11.

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10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	20.1	20.6	21.1	21.6	22.1	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1	26.6	27.1	27.6	28.1	28.6	29.1	29.6	30.1	30.6	31.1	31.6	32.1	32.6	33.1	33.6	34.1	34.6	35.1	35.6	36.1	36.6	37.1	37.6	38.1	38.6	39.1	39.6	40.1	40.6	41.1	41.6	42.1	42.6	43.1	43.6	44.1	44.6	45.1	45.6	46.1	46.6	47.1	47.6	48.1	48.6	49.1	49.6	50.1	50.6	51.1	51.6	52.1	52.6	53.1	53.6	54.1	54.6	55.1	55.6	56.1	56.6	57.1	57.6	58.1	58.6	59.1	59.6	60.1	60.6	61.1	61.6	62.1	62.6	63.1	63.6	64.1	64.6	65.1	65.6	66.1	66.6	67.1	67.6	68.1	68.6	69.1	69.6	70.1	70.6	71.1	71.6	72.1	72.6	73.1	73.6	74.1	74.6	75.1	75.6	76.1	76.6	77.1	77.6	78.1	78.6	79.1	79.6	80.1	80.6	81.1	81.6	82.1	82.6	83.1	83.6	84.1	84.6	85.1	85.6	86.1	86.6	87.1	87.6	88.1	88.6	89.1	89.6	90.1	90.6	91.1	91.6	92.1	92.6	93.1	93.6	94.1	94.6	95.1	95.6	96.1	96.6	97.1	97.6	98.1	98.6	99.1	99.6	100.1	100.6	101.1	101.6	102.1	102.6	103.1	103.6	104.1	104.6	105.1	105.6	106.1	106.6	107.1	107.6	108.1	108.6	109.1	109.6	110.1	110.6	111.1	111.6	112.1	112.6	113.1	113.6	114.1	114.6	115.1	115.6	116.1	116.6	117.1	117.6	118.1	118.6	119.1	119.6	120.1	120.6	121.1	121.6	122.1	122.6	123.1	123.6	124.1	124.6	125.1	125.6	126.1	126.6	127.1	127.6	128.1	128.6	129.1	129.6	130.1	130.6	131.1	131.6	132.1	132.6	133.1	133.6	134.1	134.6	135.1	135.6	136.1	136.6	137.1	137.6	138.1	138.6	139.1	139.6	140.1	140.6	141.1	141.6	142.1	142.6	143.1	143.6	144.1	144.6	145.1	145.6	146.1	146.6	147.1	147.6	148.1	148.6	149.1	149.6	150.1	150.6	151.1	151.6	152.1	152.6	153.1	153.6	154.1	154.6	155.1	155.6	156.1	156.6	157.1	157.6	158.1	158.6	159.1	159.6	160.1	160.6	161.1	161.6	162.1	162.6	163.1	163.6	164.1	164.6	165.1	165.6	166.1	166.6	167.1	167.6	168.1	168.6	169.1	169.6	170.1	170.6	171.1	171.6	172.1	172.6	173.1	173.6	174.1	174.6	175.1	175.6	176.1	176.6	177.1	177.6	178.1	178.6	179.1	179.6	180.1	180.6	181.1	181.6	182.1	182.6	183.1	183.6	184.1	184.6	185.1	185.6	186.1	186.6	187.1	187.6	188.1	188.6	189.1	189.6	190.1	190.6	191.1	191.6	192.1	192.6	193.1	193.6	194.1	194.6	195.1	195.6	196.1	196.6	197.1	197.6	198.1	198.6	199.1	199.6	200.1	200.6	201.1	201.6	202.1	202.6	203.1	203.6	204.1	204.6	205.1	205.6	206.1	206.6	207.1	207.6	208.1	208.6	209.1	209.6	210.1	210.6	211.1	211.6	212.1	212.6	213.1	213.6	214.1	214.6	215.1	215.6	216.1	216.6	217.1	217.6	218.1	218.6	219.1	219.6	220.1	220.6	221.1	221.6	222.1	222.6	223.1	223.6	224.1	224.6	225.1	225.6	226.1	226.6	227.1	227.6	228.1	228.6	229.1	229.6	230.1	230.6	231.1	231.6	232.1	232.6	233.1	233.6	234.1	234.6	235.1	235.6	236.1	236.6	237.1	237.6	238.1	238.6	239.1	239.6	240.1	240.6	241.1	241.6	242.1	242.6	243.1	243.6	244.1	244.6	245.1	245.6	246.1	246.6	247.1	247.6	248.1	248.6	249.1	249.6	250.1	250.6	251.1	251.6	252.1	252.6	253.1	253.6	254.1	254.6	255.1	255.6	256.1	256.6	257.1	257.6	258.1	258.6	259.1	259.6	260.1	260.6	261.1	261.6	262.1	262.6	263.1	263.6	264.1	264.6	265.1	265.6	266.1	266.6	267.1	267.6	268.1	268.6	269.1	269.6	270.1	270.6	271.1	271.6	272.1	272.6	273.1	273.6	274.1	274.6	275.1	275.6	276.1	276.6	277.1	277.6	278.1	278.6	279.1	279.6	280.1	280.6	281.1	281.6	282.1	282.6	283.1	283.6	284.1	284.6	285.1	285.6	286.1	286.6	287.1	287.6	288.1	288.6	289.1	289.6	290.1	290.6	291.1	291.6	292.1	292.6	293.1	293.6	294.1	294.6	295.1	295.6	296.1	296.6	297.1	297.6	298.1	298.6	299.1	299.6	300.1	300.6	301.1	301.6	302.1	302.6	303.1	303.6	304.1	304.6	305.1	305.6	306.1	306.6	307.1	307.6	308.1	308.6	309.1	309.6	310.1	310.6	311.1	311.6	312.1	312.6	313.1	313.6	314.1	314.6	315.1	315.6	316.1	316.6	317.1	317.6	318.1	318.6	319.1	319.6	320.1	320.6	321.1	321.6	322.1	322.6	323.1	323.6	324.1	324.6	325.1	325.6	326.1	326.6	327.1	327.6	328.1	328.6	329.1	329.6	330.1	330.6	331.1	331.6	332.1	332.6	333.1	333.6	334.1	334.6	335.1	335.6	336.1	336.6	337.1	337.6	338.1	338.6	339.1	339.6	340.1	340.6	341.1	341.6	342.1	342.6	343.1	343.6	344.1	344.6	345.1	345.6	346.1	346.6	347.1	347.6	348.1	348.6	349.1	349.6	350.1	350.6	351.1	351.6	352.1	352.6	353.1	353.6	354.1	354.6	355.1	355.6	356.1	356.6	357.1	357.6	358.1	358.6	359.1	359.6	360.1	360.6	361.1	361.6	362.1	362.6	363.1	363.6	364.1	364.6	365.1	365.6	366.1	366.6	367.1	367.6	368.1	368.6	369.1	369.6	370.1	370.6	371.1	371.6	372.1	372.6	373.1	373.6	374.1	374.6	375.1	375.6	376.1	376.6	377.1	377.6	378.1	378.6	379.1	379.6	380.1	380.6	381.1	381.6	382.1	382.6	383.1	383.6	384.1	384.6	385.1	385.6	386.1	386.6	387.1	387.6	388.1	388.6	389.1	389.6	390.1	390.6	391.1	391.6	392.1	392.6	393.1	393.6	394.1	394.6	395.1	395.6	396.1	396.6	397.1	397.6	398.1	398.6	399.1	399.6	400.1	400.6	401.1	401.6	402.1	402.6	403.1	403.6	404.1	404.6	405.1	405.6	406.1	406.6	407.1	407.6	408.1	408.6	409.1	409.6	410.1	410.6	411.1	411.6	412.1	412.6	413.1	413.6	414.1	414.6	415.1	415.6	416.1	416.6	417.1	417.6	418.1	418.6	419.1	419.6	420.1	420.6	421.1	421.6	422.1	422.6	423.1	423.6	424.1	424.6	425.1	425.6	426.1	426.6	427.1	427.6	428.1	428.6	429.1	429.6	430.1	430.6	431.1	431.6	432.1	432.6	433.1	433.6	434.1	434.6	435.1	435.6	436.1	436.6	437.1	437.6	438.1	438.6	439.1	439.6	440.1	440.6	441.1	441.6	442.1	442.6	443.1	443.6	444.1	444.6	445.1	445.6	446.1	446.6	447.1	447.6	448.1	448.6	449.1	449.6	450.1	450.6	451.1	451.6	452.1	452.6	453.1	453.6	454.1	454.6	455.1	455.6	456.1	456.6	457.1	457.6	458.1	458.6	459.1	459.6	460.1	460.6	461.1	461.6	462.1	462.6	463.1	463.6	464.1	464.6	465.1	465.6	466.1	466.6	467.1	467.6	468.1	468.6	469.1	469.6	470.1	470.6	471.1	471.6	472.1	472.6	473.1	473.6	474.1	474.6	475.1	475.6	476.1	476.6	477.1	477.6	478.1	478.6	479.1	479.6	480.1	480.6	481.1	481.6	482.1	482.6	483.1	483.6	484.1	484.6	485.1	485.6	486.1	486.6	487.1	487.6	488.1	488.6	489.1	489.6	490.1	490.6	491.1	491.6	492.1	492.6	493.1	493.6	494.1	494.6	495.1	495.6	496.1	496.6	497.1	497.6	498.1	498.6	499.1	499.6	500.1	500.6	501.1	501.6	502.1	502.6	503.1	503.6	504.1	504.6	505.1	505.6	506.1	506.6	507.1	507.6	508.1	508.6	509.1	509.6	510.1	510.6	511.1	511.6	512.1	512.6	513.1	513.6	514.1	514.6	515.1	515.6	516.1	516.6	517.1	517.6	518.1	518.6	519.1	519.6	520.1	520.6	521.1	521.6	522.1	522.6	523.1	523.6	524.1	524.6	525.1	525.6	526.1	526.6	527.1	527.6	528.1	528.6	529.1	529.6	530.1	530.6	531.1	531.6	532.1	532.6	533.1	533.6	534.1	534.6	535.1	535.6	536.1	536.6	537.1	537.6	538.1	538.6	539.1	539.6	540.1	540.6	541.1	541.6	542.1	542.6	543.1	543.6	544.1	544.6	545.1	545.6	546.1	546.6	547.1	547.6	548.1	548.6	549.1	549.6	550.1	550.6	551.1	551.6	552.1	552.6	553.1	553.6	554.1	554.6	555.1	555.6	556.1	556.6	557.1	557.6	558.1	558.6	559.1	559.6	560.1	560.6	561.1	561.6	562.1	562.6	563.1	563.6	564.1	564.6	565.1	565.6	566.1	566.6	567.1	567.6	568.1	568.6	569.1	569.6	570.1	570.6	571.1	571.6	572.1	572.6	573.1	573.6	574.1	574.6	575.1	575.6	576.1	576.6	577.1	577.6	578.1	578.6	579.1	579.6	580.1	580.6	581.1	581.6	582.1	582.6	583.1	583.6	584.1	584.6	585.1	585.6	586.1	586.6	587.1	587.6	588.1	588.6	589.1	589.6	590.1	590.6	591.1	591.6	592.1	592.6	593.1	593.6	594.1	594.6	595.1	595.6	596.1	596.6	597.1	597.6	598.1	598.6	599.1	599.6	600.1	600.6	601.1	601.6	602.1	602.6	603.1	603.6	604.1	604.6	605.1	605.6	606.1	606.6	607.1	607.6	608.1	608.6	609.1	609.6	610.1	610.6	611.1	611.6	612.1	612.6	613.1	613.6	614.1	614.6	615.1	615.6	616.1	616.6	617.1	617.6	618.1	618.6	619.1	619.6	620.1	620.6	621.1	621.6	622.1	622.6	623.1	623.6	624.1	624.6	625.1	625.6	626.1	626.6	627.1	627.6	628.1	628.6	629.1	629.6	630.1	630.6	631.1	631.6	632.1	632.6	633.1	633.6	634.1	634.6	635.1	635.6	636.1	636.6	637.1	637.6
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TOTAL NUMBER OF OBSERVATIONS 739

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AD-A131 188

FEUCHT AAF GERMANY (WEST) REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBS..(U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. MAY 83

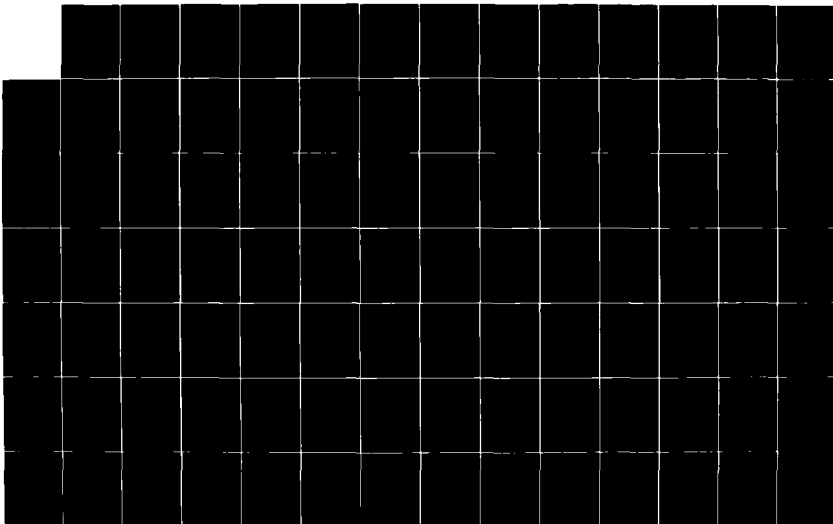
2/3

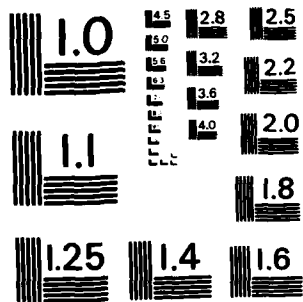
UNCLASSIFIED

USAFETAC/DS-83/012 SBI-AD-E850 390

F/G 4/2

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

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1. CLIMATE LOG BRANCH
2. TAC
3. DATA SERVICE/MAC

CEILING VERSUS VISIBILITY

1. NAME: FLECHT, JAF DE

2. DATE: 7-1-57

3. STATION: 1400

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1-10-1100

18.5	19.0	21.2	24.8	27.6	28.2	29.6	29.7	29.7	30.0	30.7	30.8	30.7	30.1	31.1	31.1
21.3	25.1	27.7	33.5	36.9	37.8	39.4	39.7	39.7	39.9	39.9	39.9	39.9	40.1	40.1	40.2
24.7	21.4	29.1	33.9	37.4	38.3	39.9	40.1	40.1	40.4	40.4	40.4	40.4	40.5	40.5	40.7
27.1	25.6	28.3	34.1	37.6	38.6	41.1	40.5	40.5	40.7	40.7	40.7	40.7	41.1	41.1	41.1
29.6	25.7	29.5	35.4	38.9	39.9	41.5	41.6	41.8	42.1	42.1	42.1	42.1	42.3	42.3	42.4
31.1	27.9	30.9	36.5	41.3	41.2	42.9	43.3	43.3	43.5	43.5	43.5	43.5	43.8	43.8	43.9
28.1	21.7	30.6	38.6	42.1	43.1	44.9	45.2	45.7	45.8	45.8	45.8	45.8	45.9	45.9	45.9
27.4	30.5	33.9	39.9	43.4	44.4	46.3	46.7	46.7	46.9	46.9	46.9	46.9	47.2	47.2	47.2
24.1	32.5	35.7	41.8	45.5	46.4	48.4	48.7	48.7	49.1	49.1	49.1	49.1	49.2	49.5	49.5
26.1	34.0	37.1	43.5	47.3	48.4	50.4	50.9	51.1	51.5	51.5	51.5	51.5	51.8	52.1	52.1
24.3	34.2	37.6	44.0	47.8	48.9	50.9	51.4	51.6	52.0	52.1	52.1	52.1	52.2	52.5	52.6
27.3	35.4	38.8	45.3	49.1	50.3	52.4	52.8	53.1	53.4	53.6	53.6	53.6	53.7	53.9	54.1
26.8	37.2	41.5	47.4	51.1	52.4	54.9	55.3	55.5	55.9	55.9	55.9	56.0	56.1	56.7	56.7
21.2	31.5	47.1	50.2	54.2	55.4	57.8	58.3	58.5	59.3	59.4	59.4	59.4	59.5	59.7	59.7
31.7	44.9	44.4	51.5	55.7	57.7	59.5	60.1	60.7	61.1	61.2	61.2	61.2	61.3	61.5	61.7
21.3	44.5	45.6	56.1	61.3	61.7	64.2	64.9	65.2	65.9	66.2	66.2	66.2	66.4	66.4	66.5
21.7	47.2	51.3	53.9	63.2	64.7	67.2	68.3	68.6	69.4	69.5	69.5	69.5	69.6	69.9	69.9
27.5	50.5	54.8	64.1	65.9	70.5	73.5	74.7	75.1	75.2	75.9	75.9	75.9	76.1	76.2	76.4
27.8	51.0	55.3	64.8	70.0	71.6	75.0	76.2	76.4	77.3	77.4	77.4	77.4	77.5	77.8	77.9
24.5	52.1	55.5	66.4	71.9	73.5	77.5	79.4	79.7	80.8	81.9	82.9	81.0	81.3	81.3	81.4
21.4	54.1	53.5	69.0	75.2	76.9	81.7	84.3	84.5	86.1	86.2	86.2	86.3	86.6	86.6	86.7
29.3	54.4	52.1	69.8	76.2	77.9	83.0	85.7	86.1	87.7	87.9	87.9	88.0	88.3	88.3	88.4
29.9	54.8	59.5	70.3	76.7	78.4	83.9	86.7	87.1	88.8	89.1	89.1	89.2	89.5	89.5	89.5
29.2	54.9	59.7	70.7	77.3	79.2	85.7	88.3	88.8	91.2	91.9	92.1	92.4	92.6	92.6	92.7
21.1	55.1	61.1	71.0	77.8	79.8	86.1	89.8	90.2	93.0	93.8	94.2	94.4	94.7	94.7	94.8
20.3	55.4	61.2	71.2	78.0	80.0	86.3	90.6	91.2	94.1	95.3	95.6	95.9	96.1	96.1	96.3
20.3	55.4	61.2	71.2	78.2	80.3	86.6	91.7	92.3	95.3	96.5	97.1	97.2	97.5	97.5	97.6
20.3	55.4	61.2	71.2	78.2	80.4	87.1	91.9	92.5	95.9	97.3	97.8	98.2	98.9	98.9	99.0
20.3	55.4	61.2	71.2	78.2	80.4	87.2	92.0	92.6	96.3	97.7	98.2	98.7	99.8	99.8	100.0
20.3	55.4	61.2	71.2	78.2	80.4	87.2	92.0	92.6	96.3	97.7	98.2	98.7	99.8	99.8	100.0
20.3	55.4	61.2	71.2	78.2	80.4	87.2	92.0	92.6	96.3	97.7	98.2	98.7	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS: 227

USAF FTA

7-19

44

000-242-

TOTAL NUMBER OF OBSERVATIONS 570

1
2
1

U.S. AIR FORCE
METEOROLOGICAL BRANCH
ATMOSPHERIC SERVICE, WAFB

CEILING VERSUS VISIBILITY

1. WIND DIRECTION, SPEED, AND TYPE

73-81

WAFB

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1940-1951

1.0	24.9	27.6	28.6	27.3	27.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
1.1	34.7	37.2	41.7	41.8	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
1.2	37.8	39.7	41.8	42.9	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
1.3	38.1	39.7	42.1	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
1.4	38.7	39.9	42.7	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
1.5	39.2	40.4	42.3	44.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
1.6	41.5	42.7	45.6	46.7	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
1.7	42.2	43.9	46.9	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
1.8	45.5	47.9	50.5	51.8	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
1.9	48.7	49.4	51.8	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2.0	48.7	49.7	52.5	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
2.1	49.1	50.7	54.4	55.9	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
2.2	51.6	53.7	57.1	58.8	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
2.3	55.7	58.7	62.5	64.4	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
2.4	56.4	60.4	65.5	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
2.5	60.1	68.7	73.2	75.3	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
2.6	69.6	71.9	77.6	80.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
2.7	74.8	77.7	84.5	87.1	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
2.8	76.0	79.1	86.2	89.8	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
2.9	77.3	80.3	88.0	91.4	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
3.0	79.0	81.7	90.2	94.0	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
3.1	79.7	81.7	90.9	94.8	95.2	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
3.2	79.5	81.7	91.2	95.1	95.5	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
3.3	78.8	82.5	91.9	95.7	96.2	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
3.4	78.9	82.5	91.9	95.7	96.2	96.6	96.9	97.1	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
3.5	78.9	82.5	92.3	96.3	96.8	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
3.6	78.8	82.5	92.3	96.3	96.8	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
3.7	78.8	82.5	92.3	96.3	96.8	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
3.8	78.8	82.5	92.3	96.3	96.8	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
3.9	78.8	82.5	92.3	96.3	96.8	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
4.0	78.8	82.5	92.3	96.3	96.8	97.5	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS 151

U.S. AIR FORCE METEOROLOGICAL BRANCH

ALBANY, NEW YORK

STATION: STATION 17410

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATION

1955-1956

1.0	33.4	34.7	37.3	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9
1.1	33.2	41.1	43.4	44.2	44.2	44.3	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
1.3	33.5	41.7	43.7	44.4	44.4	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
1.5	33.5	41.7	43.7	44.4	44.4	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
1.7	33.9	41.7	44.1	44.6	44.6	44.9	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
1.9	33.7	41.7	45.2	45.1	45.1	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
2.0	43.1	44.1	47.5	48.4	48.4	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
2.2	43.7	45.1	48.5	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
2.4	43.2	47.2	47.8	53.5	54.6	54.7	54.8	55.0	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
2.6	43.4	48.3	51.9	54.6	55.9	56.1	56.3	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
2.8	44.1	51.7	55.7	56.8	56.9	57.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
3.0	51.2	51.2	57.8	56.9	57.0	58.2	58.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
3.2	51.1	53.5	57.9	59.0	59.2	59.4	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
3.4	54.1	55.5	61.3	62.6	62.7	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
3.6	55.1	57.2	63.5	64.9	65.1	65.2	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
3.8	61.5	64.9	69.9	71.5	71.7	71.9	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
4.0	63.3	67.7	72.0	73.9	73.9	74.3	74.6	74.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
4.2	67.3	72.7	76.0	78.2	78.1	79.1	79.5	79.5	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
4.4	67.8	71.4	77.0	79.0	79.2	80.2	80.8	80.9	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
4.6	67.6	73.3	79.5	81.6	82.1	83.3	84.2	84.2	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
4.8	71.5	75.5	80.5	85.4	85.0	87.5	88.5	88.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
5.0	72.5	76.7	84.3	87.5	88.2	90.1	91.1	91.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
5.2	72.6	76.7	84.4	88.7	89.7	91.1	92.2	92.2	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
5.4	73.1	77.1	85.4	87.1	87.9	92.5	93.7	93.8	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
5.6	73.3	77.5	86.1	89.9	90.6	93.4	94.9	95.0	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
5.8	73.3	77.5	86.5	90.2	91.0	93.8	96.0	96.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
6.0	73.3	77.6	86.5	90.5	91.2	94.2	96.5	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
6.2	73.3	77.6	86.5	90.5	91.2	94.2	96.5	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
6.4	73.3	77.6	86.5	90.5	91.2	94.2	96.5	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
6.6	73.3	77.6	86.5	90.5	91.2	94.2	96.5	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
6.8	73.3	77.6	86.5	90.5	91.2	94.2	96.5	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
7.0	73.3	77.6	86.5	90.5	91.2	94.2	96.5	96.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6

TOTAL NUMBER OF OBSERVATIONS 800

CEILING VERSUS VISIBILITY

73-31

100-2-1400

[illegible]TOTAL NUMBER OF OBSERVATIONS 200

GLOBAL CLIMATOLOGY BRANCH
AFAC
AFAC SERVICE/AMAC

CEILING VERSUS VISIBILITY

1. WIND DIRECTION 445.0L

70-31

68

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1950-1951

21.6	71.4	31.4	31.4	31.4	31.4	31.4	31.4	71.4	31.4	71.4	31.4	31.4	31.4	71.4	31.4	71.4
32.3	32.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 600

USAF PACAF 1950-1951

AL CLIMATE CONTROL SYSTEM
FACILITY

WATER SERVICE/PAID

CEILING VERSUS VISIBILITY

1. *Chlorophyll a* (Chl *a*)

— — — — —

254

FOR THE PURPOSES OF THE PROTECTIVE
 ORDER OF 1940.

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	40.0
39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9
41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9
43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9
45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9
47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9
49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	51.0	51.1	51.2	51.3	51.4	51.5	51.6	51.7	51.8	51.9
51.1	51.2	51.3	51.4	51.5	51.6	51.7	51.8	51.9	52.0	52.1	52.2	52.3	52.4	52.5	52.6	52.7	52.8	52.9	53.0	53.1	53.2	53.3	53.4	53.5	53.6	53.7	53.8	53.9
53.1	53.2	53.3	53.4	53.5	53.6	53.7	53.8	53.9	54.0	54.1	54.2	54.3	54.4	54.5	54.6	54.7	54.8	54.9	55.0	55.1	55.2	55.3	55.4	55.5	55.6	55.7	55.8	55.9
55.1	55.2	55.3	55.4	55.5	55.6	55.7	55.8	55.9	56.0	56.1	56.2	56.3	56.4	56.5	56.6	56.7	56.8	56.9	57.0	57.1	57.2	57.3	57.4	57.5	57.6	57.7	57.8	57.9
57.1	57.2	57.3	57.4	57.5	57.6	57.7	57.8	57.9	58.0	58.1	58.2	58.3	58.4	58.5	58.6	58.7	58.8	58.9	59.0	59.1	59.2	59.3	59.4	59.5	59.6	59.7	59.8	59.9
59.1	59.2	59.3	59.4	59.5	59.6	59.7	59.8	59.9	60.0	60.1	60.2	60.3	60.4	60.5	60.6	60.7	60.8	60.9	61.0	61.1	61.2	61.3	61.4	61.5	61.6	61.7	61.8	61.9
61.1	61.2	61.3	61.4	61.5	61.6	61.7	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9
63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9
65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9
67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3																

TOTAL NUMBER OF OBSERVATIONS _____

5. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

METEOROLOGICAL BRANCH

ATLANTA SERVICE/MAC

WINDS - REPORT AIR FORCE

72-81

JAN

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1953-1954

0.1	2.1	31.1	35.7	37.6	37.8	38.8	38.8	38.8	39.1	39.1	39.3	39.3	39.7	39.7	39.6
0.4	33.5	37.6	41.6	43.2	43.2	44.3	44.3	44.4	44.7	44.7	44.8	44.8	45.1	45.1	45.8
0.6	33.7	37.6	41.2	43.1	43.7	44.7	44.7	44.9	45.2	45.2	45.3	45.3	45.6	45.6	45.7
0.8	33.7	37.6	41.7	43.8	43.9	44.9	44.9	45.2	45.5	45.5	45.6	45.6	45.9	45.9	46.2
1.0	34.1	36.2	41.7	44.2	44.3	45.7	45.3	45.6	45.8	45.8	46.1	46.2	46.2	46.2	46.6
1.2	34.7	36.2	42.3	44.9	45.1	46.1	46.1	46.6	46.6	46.6	47.2	47.2	47.2	47.2	47.6
1.4	34.7	36.2	44.7	47.9	48.1	49.1	49.2	49.7	51.2	50.7	50.1	51.1	51.4	51.4	52.3
1.6	37.8	41.7	46.3	49.5	49.5	50.8	50.9	51.4	51.6	51.6	51.8	51.8	52.1	52.1	52.4
1.8	41.7	43.2	50.4	53.7	53.8	55.2	55.4	55.7	56.3	56.3	56.4	56.4	56.7	56.7	57.1
2.0	43.2	46.6	53.2	57.1	57.4	59.5	60.0	60.5	61.9	61.2	61.1	61.1	61.4	61.4	61.7
2.2	43.3	47.7	53.7	57.6	58.1	60.2	60.7	61.2	61.5	61.7	61.9	61.9	62.1	62.1	62.6
2.4	44.7	48.4	55.2	59.2	59.7	62.4	63.2	63.3	64.0	64.1	64.3	64.3	64.5	64.5	64.8
2.6	46.6	50.4	57.6	61.7	62.2	64.9	65.8	66.7	66.8	66.9	67.2	67.2	67.3	67.3	67.7
2.8	48.4	54.3	62.3	66.4	66.9	69.9	70.8	71.7	72.2	72.2	72.3	72.5	72.9	72.9	73.4
3.0	51.3	55.2	62.9	67.4	68.2	71.3	72.2	72.7	73.5	73.9	74.0	74.1	74.5	74.5	75.2
3.2	51.4	56.5	65.2	69.8	70.6	73.7	75.0	75.5	76.6	77.1	77.1	77.4	77.8	77.8	78.3
3.4	51.3	57.2	66.3	71.2	72.1	75.3	76.5	77.7	78.2	78.5	78.7	78.9	79.3	79.3	79.8
3.6	53.2	58.1	67.7	72.6	73.5	77.1	78.5	79.0	80.3	80.7	80.8	81.2	81.5	81.5	82.1
3.8	53.2	59.7	67.9	73.0	74.0	78.0	79.4	79.9	81.2	81.7	81.8	82.2	82.5	82.5	83.1
4.0	54.5	60.1	69.4	74.9	75.9	80.7	82.1	82.6	83.5	84.3	84.5	84.8	85.2	85.2	85.7
4.2	55.1	61.1	71.1	77.1	78.2	83.7	85.4	85.9	87.1	87.5	87.8	88.1	88.5	88.5	89.0
4.4	55.8	62.1	72.7	78.9	79.9	85.7	87.6	88.1	89.8	90.3	90.4	90.8	91.2	91.2	91.7
4.6	55.8	62.1	73.0	79.3	80.3	86.2	88.1	88.6	90.3	90.8	90.9	91.3	91.7	91.7	92.2
4.8	56.1	62.4	73.2	79.9	81.1	87.0	89.1	89.6	91.5	92.0	92.2	92.6	92.9	92.9	93.4
5.0	56.1	62.4	73.2	80.1	81.2	87.8	90.0	90.5	92.8	93.3	93.4	93.8	94.2	94.2	94.7
5.2	56.1	62.4	73.2	80.1	81.2	87.8	90.0	90.7	93.3	93.9	94.3	94.7	95.1	95.1	95.6
5.4	56.2	62.5	73.7	80.6	81.7	89.4	90.8	91.4	94.7	95.7	96.1	96.7	97.1	97.1	97.6
5.6	56.2	62.5	73.9	80.7	81.8	89.5	91.0	91.7	95.2	96.2	96.8	97.5	97.9	97.9	98.4
5.8	56.2	62.5	73.9	80.7	81.8	89.5	91.0	91.7	95.6	96.8	97.5	98.1	98.9	98.9	99.5
6.0	56.2	62.5	73.9	80.7	81.8	89.5	91.0	91.7	95.6	96.8	97.5	98.1	99.1	99.1	99.6
6.2	56.2	62.5	73.9	80.7	81.8	89.5	91.0	91.7	95.6	96.8	97.5	98.1	99.1	99.1	99.6
6.4	56.2	62.5	73.9	80.7	81.8	89.5	91.0	91.7	95.6	96.8	97.5	98.1	99.1	99.1	99.6

TOTAL NUMBER OF OBSERVATIONS 792

UNAF 5742 10-11-54 10-11-54 10-11-54 10-11-54

CEILING VERSUS VISIBILITY

STATION NAME: ...

STATION NUMBER: ...

STATION TYPE: ...

77-11

JUL

FOR ... END OF ...

1911-1131

37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9
42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS: 1000

CONFIDENTIAL - EYES ONLY

1992

CEILING VERSUS VISIBILITY

• 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405

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44.

CHANGES FREQUENT OF OLD PEOPLE FROM YOUNG GENERATION

All

[illegible]TOTAL NUMBER OF OBSERVATIONS 362[illegible]

CEILING VERSUS VISIBILITY

1. *Phragmites* (common in the marshes of the lower Mississippi River and in the coastal marshes of the Gulf of Mexico).

7-43

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SECRET
NOFORN

44-38861-1000

[illegible]TOTAL NUMBER OF OBSERVATIONS 32

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2

1

77-51

433

— 2 —

TOTAL NUMBER OF OBSERVATIONS 127

34.4	34.5	34.6	34.7	34.8	34.9	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	40.0													
37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	43.0										
44.8	44.9	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	51.0							
57.6	57.7	57.8	57.9	58.0	58.1	58.2	58.3	58.4	58.5	58.6	58.7	58.8	58.9	59.0	59.1	59.2	59.3	59.4	59.5	59.6	59.7	59.8	59.9	60.0	60.1	60.2	60.3	60.4	60.5	60.6	60.7	60.8	60.9	61.0	61.1	61.2	61.3	61.4	61.5	61.6	61.7	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0					
66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5	68.6	68.7	68.8	68.9	69.0	69.1	69.2	69.3	69.4	69.5	69.6	69.7	69.8	69.9	70.0	70.1	70.2	70.3	70.4	70.5	70.6	70.7	70.8	70.9	71.0	71.1	71.2	71.3	71.4	71.5	71.6	71.7	71.8	71.9	72.0	72.1	72.2	72.3	72.4	72.5	72.6	72.7	72.8	72.9	73.0		
75.2	75.3	75.4	75.5	75.6	75.7	75.8	75.9	76.0	76.1	76.2	76.3	76.4	76.5	76.6	76.7	76.8	76.9	77.0	77.1	77.2	77.3	77.4	77.5	77.6	77.7	77.8	77.9	78.0	78.1	78.2	78.3	78.4	78.5	78.6	78.7	78.8	78.9	79.0	79.1	79.2	79.3	79.4	79.5	79.6	79.7	79.8	79.9	80.0	80.1	80.2	80.3	80.4	80.5	80.6	80.7	80.8	80.9	81.0	81.1	81.2	81.3	81.4	81.5	81.6	81.7	81.8	81.9	82.0	
84.9	85.0	85.1	85.2	85.3	85.4	85.5	85.6	85.7	85.8	85.9	86.0	86.1	86.2	86.3	86.4	86.5	86.6	86.7	86.8	86.9	87.0	87.1	87.2	87.3	87.4	87.5	87.6	87.7	87.8	87.9	88.0	88.1	88.2	88.3	88.4	88.5	88.6	88.7	88.8	88.9	89.0	89.1	89.2	89.3	89.4	89.5	89.6	89.7	89.8	89.9	90.0	90.1	90.2	90.3	90.4	90.5	90.6	90.7	90.8	90.9	91.0	91.1	91.2	91.3	91.4	91.5	91.6	91.7	91.8

DATE - 10 SEP 1968 / MDC

CEILING VERSUS VISIBILITY

1. *Chlorophyll a* and *Chlorophyll b* contents were determined by the method of Arar and Collins (1971).

2-41

44

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM FOURTH OBSERVATION:

42-0-2423

75.0	73.4	72.4	71.8	71.6	71.4	71.2	71.0	70.8	70.6	70.4	70.2	70.0	69.8	69.6	69.4	69.2	69.0	68.8	68.6	68.4	68.2	68.0	67.8	67.6	67.4	67.2	67.0	66.8	66.6	66.4	66.2	66.0	65.8	65.6	65.4	65.2	65.0	64.8	64.6	64.4	64.2	64.0	63.8	63.6	63.4	63.2	63.0	62.8	62.6	62.4	62.2	62.0	61.8	61.6	61.4	61.2	61.0	60.8	60.6	60.4	60.2	60.0	59.8	59.6	59.4	59.2	59.0	58.8	58.6	58.4	58.2	58.0	57.8	57.6	57.4	57.2	57.0	56.8	56.6	56.4	56.2	56.0	55.8	55.6	55.4	55.2	55.0	54.8	54.6	54.4	54.2	54.0	53.8	53.6	53.4	53.2	53.0	52.8	52.6	52.4	52.2	52.0	51.8	51.6	51.4	51.2	51.0	50.8	50.6	50.4	50.2	50.0	49.8	49.6	49.4	49.2	49.0	48.8	48.6	48.4	48.2	48.0	47.8	47.6	47.4	47.2	47.0	46.8	46.6	46.4	46.2	46.0	45.8	45.6	45.4	45.2	45.0	44.8	44.6	44.4	44.2	44.0	43.8	43.6	43.4	43.2	43.0	42.8	42.6	42.4	42.2	42.0	41.8	41.6	41.4	41.2	41.0	40.8	40.6	40.4	40.2	40.0	39.8	39.6	39.4	39.2	39.0	38.8	38.6	38.4	38.2	38.0	37.8	37.6	37.4	37.2	37.0	36.8	36.6	36.4	36.2	36.0	35.8	35.6	35.4	35.2	35.0	34.8	34.6	34.4	34.2	34.0	33.8	33.6	33.4	33.2	33.0	32.8	32.6	32.4	32.2	32.0	31.8	31.6	31.4	31.2	31.0	30.8	30.6	30.4	30.2	30.0	29.8	29.6	29.4	29.2	29.0	28.8	28.6	28.4	28.2	28.0	27.8	27.6	27.4	27.2	27.0	26.8	26.6	26.4	26.2	26.0	25.8	25.6	25.4	25.2	25.0	24.8	24.6	24.4	24.2	24.0	23.8	23.6	23.4	23.2	23.0	22.8	22.6	22.4	22.2	22.0	21.8	21.6	21.4	21.2	21.0	20.8	20.6	20.4	20.2	20.0	19.8	19.6	19.4	19.2	19.0	18.8	18.6	18.4	18.2	18.0	17.8	17.6	17.4	17.2	17.0	16.8	16.6	16.4	16.2	16.0	15.8	15.6	15.4	15.2	15.0	14.8	14.6	14.4	14.2	14.0	13.8	13.6	13.4	13.2	13.0	12.8	12.6	12.4	12.2	12.0	11.8	11.6	11.4	11.2	11.0	10.8	10.6	10.4	10.2	10.0	9.8	9.6	9.4	9.2	9.0	8.8	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.8	5.6	5.4	5.2	5.0	4.8	4.6	4.4	4.2	4.0	3.8	3.6	3.4	3.2	3.0	2.8	2.6	2.4	2.2	2.0	1.8	1.6	1.4	1.2	1.0	0.8	0.6	0.4	0.2	0.0	-0.2	-0.4	-0.6	-0.8	-1.0	-1.2	-1.4	-1.6	-1.8	-2.0	-2.2	-2.4	-2.6	-2.8	-3.0	-3.2	-3.4	-3.6	-3.8	-4.0	-4.2	-4.4	-4.6	-4.8	-5.0	-5.2	-5.4	-5.6	-5.8	-6.0	-6.2	-6.4	-6.6	-6.8	-7.0	-7.2	-7.4	-7.6	-7.8	-8.0	-8.2	-8.4	-8.6	-8.8	-9.0	-9.2	-9.4	-9.6	-9.8	-10.0	-10.2	-10.4	-10.6	-10.8	-11.0	-11.2	-11.4	-11.6	-11.8	-12.0	-12.2	-12.4	-12.6	-12.8	-13.0	-13.2	-13.4	-13.6	-13.8	-14.0	-14.2	-14.4	-14.6	-14.8	-15.0	-15.2	-15.4	-15.6	-15.8	-16.0	-16.2	-16.4	-16.6	-16.8	-17.0	-17.2	-17.4	-17.6	-17.8	-18.0	-18.2	-18.4	-18.6	-18.8	-19.0	-19.2	-19.4	-19.6	-19.8	-20.0	-20.2	-20.4	-20.6
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TOTAL NUMBER OF OBSERVATIONS 202

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3-41

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THE TREATMENT OF OIL-FRENCH BY THE FRENCH CORPORATION

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

[illegible]TOTAL NUMBER OF OBSERVATIONS 423

CLIMATE CLIMATOLOGY BRANCH
TSC
DATE: SEP 10 / 44

CEILING VERSUS VISIBILITY

SECRET AAF 7L

72-31

5-4-2

RECEIVED BY THE DIRECTOR OF THE FBI
FROM THE DIRECTOR OF THE FBI

4.

[illegible]

TOTAL NUMBER OF OBSERVATIONS _____ 1271

CEILING VERSUS VISIBILITY

73-51

542

44-38861

32.1	33.2	33.9	34.4	41.7	42.0	44.3	45.2	45.5	45.9	46.2	46.2	46.3	46.4	46.9
34.7	33.5	36.3	43.3	45.9	46.4	49.1	52.1	50.6	51.2	51.6	51.2	51.9	52.2	52.7
34.4	33.4	37.7	43.5	46.3	46.8	49.5	50.4	51.2	51.4	52.0	52.1	52.2	52.4	53.1
34.4	33.9	37.2	43.5	46.3	46.8	49.5	50.4	51.2	51.4	52.0	52.1	52.2	52.4	53.1
34.4	33.6	37.2	43.5	46.3	46.8	49.5	50.4	51.2	51.4	52.0	52.1	52.2	52.4	53.1
34.5	34.9	38.3	44.3	47.8	48.2	50.9	51.9	52.6	52.9	53.5	53.6	53.7	53.8	54.4
34.6	35.3	40.3	45.7	49.6	5.3	53.2	54.4	55.2	55.5	56.1	56.4	56.6	56.6	57.4
34.7	35.1	40.9	46.1	51.2	51.9	55.2	56.6	57.4	57.7	58.3	58.6	58.7	58.8	59.5
34.7	35.1	40.9	51.8	55.3	56.1	59.8	61.2	62.1	62.7	63.2	63.3	63.7	63.8	64.5
34.7	35.6	43.9	52.6	56.3	57.1	61.1	62.6	63.1	63.8	64.3	64.8	64.9	65.2	65.4
34.8	4.1	44.3	53.5	57.1	59.1	62.3	63.8	64.6	65.0	65.7	65.8	66.1	66.6	67.4
34.9	42.6	47.5	56.7	6.6	61.7	66.3	68.0	69.2	69.6	72.4	72.6	72.7	71.3	71.4
34.9	43.7	48.5	59.4	63.7	64.4	69.3	71.0	71.5	71.5	73.3	73.6	73.9	74.5	74.6
34.9	45.7	51.5	61.8	66.5	67.7	73.4	75.0	75.9	76.9	77.9	78.4	78.7	79.5	79.6
34.9	45.9	51.5	62.9	67.7	68.9	74.4	76.4	77.6	78.9	80.0	80.4	80.8	81.5	81.7
35.4	47.0	52.7	64.0	69.6	70.8	76.4	78.9	80.1	81.4	82.6	83.2	83.4	84.2	84.3
35.5	47.3	53.0	65.1	70.0	71.2	77.0	79.5	80.7	82.3	83.4	83.9	84.2	85.1	85.2
35.5	48.6	54.4	66.6	71.6	72.8	78.6	81.2	82.4	84.2	85.4	85.9	86.3	87.1	87.2
35.5	48.7	54.4	66.7	71.7	72.9	79.7	81.3	82.5	84.3	85.5	86.0	86.4	87.2	87.4
35.5	49.0	54.9	67.3	72.3	73.6	79.8	82.4	83.6	85.4	86.6	87.1	87.5	88.3	88.5
35.6	49.3	55.3	67.7	73.0	74.4	81.0	83.6	84.9	87.0	88.2	88.7	89.0	90.0	90.9
35.6	49.6	55.5	68.2	73.6	75.2	82.4	85.1	86.4	88.7	90.2	90.9	91.4	92.2	92.3
35.6	49.6	55.5	68.2	74.0	75.6	82.9	85.7	87.0	89.4	91.0	91.6	92.1	93.0	93.1
35.6	49.6	55.5	68.5	74.4	75.9	83.4	86.4	87.6	90.3	91.8	92.5	93.1	93.8	93.9
35.6	49.6	55.5	68.5	74.6	76.2	83.7	86.9	88.3	91.0	92.6	93.2	93.7	94.5	94.6
35.6	49.6	55.5	68.5	74.6	76.2	83.7	86.9	88.3	91.3	92.8	93.4	94.0	94.6	95.0
35.6	49.6	55.5	68.5	74.7	76.3	83.8	87.0	88.5	92.1	93.8	94.4	95.1	96.1	96.4
35.6	49.6	55.5	68.5	74.8	76.4	84.0	87.2	88.8	92.6	94.3	95.0	95.9	96.6	97.1
35.6	49.6	55.5	68.5	74.8	76.4	84.0	87.2	88.9	92.8	94.5	95.2	96.8	97.9	98.2
35.6	49.6	55.5	68.5	74.8	76.4	84.0	87.2	88.9	92.8	94.5	95.5	96.8	97.9	98.2

TOTAL NUMBER OF OBSERVATIONS 52

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1. *Phragmites australis* (Cav.) Trin. ex Steud.

47-

9-1102

PERCENTAGE FREQUENCY OF OCCURRENCE OF
PERIODS OF ABSENCE

41.7	43.7	45.8	47.7	49.8	51.7	53.7	55.7	57.7	59.7	61.7	63.7	65.7	67.7	69.7	71.7	73.7	75.7	77.7	79.7	81.7	83.7	85.7	87.7	89.7	91.7	93.7	95.7	97.7	99.7
42.7	44.7	46.8	48.7	50.8	52.7	54.7	56.7	58.7	60.7	62.7	64.7	66.7	68.7	70.7	72.7	74.7	76.7	78.7	80.7	82.7	84.7	86.7	88.7	90.7	92.7	94.7	96.7	98.7	100.7
43.7	45.7	47.8	49.7	51.8	53.7	55.7	57.7	59.7	61.7	63.7	65.7	67.7	69.7	71.7	73.7	75.7	77.7	79.7	81.7	83.7	85.7	87.7	89.7	91.7	93.7	95.7	97.7	99.7	100.7
44.7	46.7	48.8	50.7	52.8	54.7	56.7	58.7	60.7	62.7	64.7	66.7	68.7	70.7	72.7	74.7	76.7	78.7	80.7	82.7	84.7	86.7	88.7	90.7	92.7	94.7	96.7	98.7	100.7	100.7
45.7	47.7	49.8	51.7	53.8	55.7	57.7	59.7	61.7	63.7	65.7	67.7	69.7	71.7	73.7	75.7	77.7	79.7	81.7	83.7	85.7	87.7	89.7	91.7	93.7	95.7	97.7	99.7	100.7	100.7
46.7	48.7	50.8	52.7	54.8	56.7	58.7	60.7	62.7	64.7	66.7	68.7	70.7	72.7	74.7	76.7	78.7	80.7	82.7	84.7	86.7	88.7	90.7	92.7	94.7	96.7	98.7	100.7	100.7	100.7
47.7	49.7	51.8	53.7	55.8	57.7	59.7	61.7	63.7	65.7	67.7	69.7	71.7	73.7	75.7	77.7	79.7	81.7	83.7	85.7	87.7	89.7	91.7	93.7	95.7	97.7	99.7	100.7	100.7	100.7
48.7	50.7	52.8	54.7	56.8	58.7	60.7	62.7	64.7	66.7	68.7	70.7	72.7	74.7	76.7	78.7	80.7	82.7	84.7	86.7	88.7	90.7	92.7	94.7	96.7	98.7	100.7	100.7	100.7	100.7
49.7	51.7	53.8	55.7	57.8	59.7	61.7	63.7	65.7	67.7	69.7	71.7	73.7	75.7	77.7	79.7	81.7	83.7	85.7	87.7	89.7	91.7	93.7	95.7	97.7	99.7	100.7	100.7	100.7	100.7
50.7	52.7	54.8	56.7	58.8	60.7	62.7	64.7	66.7	68.7	70.7	72.7	74.7	76.7	78.7	80.7	82.7	84.7	86.7	88.7	90.7	92.7	94.7	96.7	98.7	100.7	100.7	100.7	100.7	100.7
51.7	53.7	55.8	57.7	59.8	61.7	63.7	65.7	67.7	69.7	71.7	73.7	75.7	77.7	79.7	81.7	83.7	85.7	87.7	89.7	91.7	93.7	95.7	97.7	99.7	100.7	100.7	100.7	100.7	100.7
52.7	54.7	56.8	58.7	60.8	62.7	64.7	66.7	68.7	70.7	72.7	74.7	76.7	78.7	80.7	82.7	84.7	86.7	88.7	90.7	92.7	94.7	96.7	98.7	100.7	100.7	100.7	100.7	100.7	100.7
53.7	55.7	57.8	59.7	61.8	63.7	65.7	67.7	69.7	71.7	73.7	75.7	77.7	79.7	81.7	83.7	85.7	87.7	89.7	91.7	93.7	95.7	97.7	99.7	100.7	100.7	100.7	100.7	100.7	100.7
54.7	56.7	58.8	60.7	62.8	64.7	66.7	68.7	70.7	72.7	74.7	76.7	78.7	80.7	82.7	84.7	86.7	88.7	90.7	92.7	94.7	96.7	98.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7
55.7	57.7	59.8	61.7	63.8	65.7	67.7	69.7	71.7	73.7	75.7	77.7	79.7	81.7	83.7	85.7	87.7	89.7	91.7	93.7	95.7									

TOTAL NUMBER OF OBSERVATIONS 121

... ..

73-41

1. 2

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM FOUR-HOUR OBSERVATIONS

100-4425

[illegible]TOTAL NUMBER OF OBSERVATIONS 10 10

0100-1700

[illegible]

TOTAL NUMBER OF OBSERVATIONS _____ 673

2

121

4.

7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0
83.4	84.4	85.4	86.4	87.4	88.4	89.4	90.4	91.4	92.4	93.4	94.4	95.4	96.4	97.4	98.4	99.4	100.4	101.4	102.4	103.4	104.4	105.4	106.4	107.4	108.4	109.4	110.4	111.4	112.4
84.8	85.8	86.8	87.8	88.8	89.8	90.8	91.8	92.8	93.8	94.8	95.8	96.8	97.8	98.8	99.8	100.8	101.8	102.8	103.8	104.8	105.8	106.8	107.8	108.8	109.8	110.8	111.8	112.8	113.8
86.1	87.1	88.1	89.1	90.1	91.1	92.1	93.1	94.1	95.1	96.1	97.1	98.1	99.1	100.1	101.1	102.1	103.1	104.1	105.1	106.1	107.1	108.1	109.1	110.1	111.1	112.1	113.1	114.1	115.1
87.5	88.5	89.5	90.5	91.5	92.5	93.5	94.5	95.5	96.5	97.5	98.5	99.5	100.5	101.5	102.5	103.5	104.5	105.5	106.5	107.5	108.5	109.5	110.5	111.5	112.5	113.5	114.5	115.5	116.5
88.9	89.9	90.9	91.9	92.9	93.9	94.9	95.9	96.9	97.9	98.9	99.9	100.9	101.9	102.9	103.9	104.9	105.9	106.9	107.9	108.9	109.9	110.9	111.9	112.9	113.9	114.9	115.9	116.9	117.9
90.2	91.2	92.2	93.2	94.2	95.2	96.2	97.2	98.2	99.2	100.2	101.2	102.2	103.2	104.2	105.2	106.2	107.2	108.2	109.2	110.2	111.2	112.2	113.2	114.2	115.2	116.2	117.2	118.2	119.2
91.6	92.6	93.6	94.6	95.6	96.6	97.6	98.6	99.6	100.6	101.6	102.6	103.6	104.6	105.6	106.6	107.6	108.6	109.6	110.6	111.6	112.6	113.6	114.6	115.6	116.6	117.6	118.6	119.6	120.6
93.0	94.0	95.0	96.0	97.0	98.0	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0	117.0	118.0	119.0	120.0	121.0	122.0
94.4	95.4	96.4	97.4	98.4	99.4	100.4	101.4	102.4	103.4	104.4	105.4	106.4	107.4	108.4	109.4	110.4	111.4	112.4	113.4	114.4	115.4	116.4	117.4	118.4	119.4	120.4	121.4	122.4	123.4
95.8	96.8	97.8	98.8	99.8	100.8	101.8	102.8	103.8	104.8	105.8	106.8	107.8	108.8	109.8	110.8	111.8	112.8	113.8	114.8	115.8	116.8	117.8	118.8	119.8	120.8	121.8	122.8	123.8	124.8
97.2	98.2	99.2	100.2	101.2	102.2	103.2	104.2	105.2	106.2	107.2	108.2	109.2	110.2	111.2	112.2	113.2	114.2	115.2	116.2	117.2	118.2	119.2	120.2	121.2	122.2	123.2	124.2	125.2	126.2
98.6	99.6	100.6	101.6	102.6	103.6	104.6	105.6	106.6	107.6	108.6	109.6	110.6	111.6	112.6	113.6	114.6	115.6	116.6	117.6	118.6	119.6	120.6	121.6	122.6	123.6	124.6	125.6	126.6	127.6
100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0	117.0	118.0	119.0	1									

TOTAL NUMBER OF OBSERVATIONS 211

1
2
ALTIMETER BRANCH
TAC
SERVICEMAC

CEILING VERSUS VISIBILITY

FLIGHT AAF DE

73-81

334

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1962-1963

11.4	11.3	21.6	29.6	31.3	31.3	37.8	35.1	35.4	37.4	37.5	37.6	39.6	78.8	39.7	79.0
11.4	21.1	21.7	29.6	31.3	31.3	37.8	35.1	35.4	41.6	41.8	42.1	43.1	43.3	43.5	44.6
11.4	21.7	27.7	29.6	31.1	31.1	36.1	39.4	39.7	42.1	42.3	42.6	43.6	43.6	44.7	45.1
11.4	21.6	27.4	29.6	31.3	31.3	36.3	39.5	40.0	42.2	42.4	42.6	43.8	43.8	44.1	45.2
11.6	21.8	27.5	29.8	31.4	31.5	36.4	39.5	40.1	42.5	42.8	43.1	44.1	44.3	44.5	45.5
11.3	21.6	24.4	31.3	32.9	33.1	37.9	41.2	41.4	44.3	44.4	44.5	45.8	45.9	46.1	47.3
11.1	21.3	21.5	30.5	34.1	34.4	39.4	42.8	43.7	45.9	46.1	46.5	47.6	48.1	48.4	49.6
11.3	21.3	26.7	33.1	34.9	35.0	40.7	43.4	43.8	46.6	46.9	47.4	48.4	48.9	49.1	51.4
11.3	21.5	22.9	37.0	37.1	37.4	44.5	48.5	49.0	51.9	52.1	52.6	53.6	54.3	54.5	55.3
21.1	27.7	31.1	39.6	42.1	42.4	48.1	52.3	52.9	55.9	56.1	56.3	57.8	58.5	58.8	61.1
21.4	27.4	31.5	40.4	42.8	43.0	48.8	52.9	53.4	56.5	56.8	57.4	58.4	59.1	59.4	61.2
21.2	27.4	33.0	42.2	45.4	45.8	52.4	56.6	57.1	60.6	61.2	61.6	62.8	63.5	63.9	65.3
21.4	27.6	34.4	44.8	47.7	47.8	54.9	59.1	59.7	63.4	63.6	64.3	65.4	66.3	66.6	68.0
27.1	31.6	35.8	46.3	49.5	50.0	57.3	61.9	62.4	66.4	66.8	67.4	68.6	69.3	69.9	71.3
21.4	33.8	34.3	48.9	52.1	52.8	60.0	64.9	65.4	69.6	70.0	70.3	72.1	73.1	73.5	74.9
27.1	35.8	40.3	51.5	55.1	55.8	63.5	68.8	69.3	73.9	74.1	75.1	76.9	77.9	78.3	79.9
27.4	36.1	41.1	52.1	56.1	56.8	64.5	69.8	70.3	75.1	75.6	76.6	78.5	79.8	80.1	81.5
27.2	37.3	42.2	53.8	57.8	58.4	66.4	71.5	72.1	77.4	77.9	78.9	80.8	82.1	82.5	84.0
29.1	37.4	42.9	53.9	57.9	58.5	66.5	71.8	72.3	77.5	78.0	79.0	80.9	82.3	82.6	84.0
27.5	37.3	43.5	54.6	58.6	59.3	68.0	73.5	74.0	79.6	80.1	81.1	83.1	84.5	84.9	86.4
27.5	37.4	44.0	55.4	59.5	60.1	69.1	74.6	75.1	80.8	81.3	82.5	84.4	86.0	86.4	87.9
27.5	37.4	44.0	55.5	59.6	60.3	69.4	74.9	75.4	81.3	81.8	83.0	84.9	86.9	87.3	88.8
27.5	37.4	44.0	55.5	59.6	60.3	69.5	75.0	75.5	81.6	82.1	83.4	85.4	87.4	87.8	89.3
27.5	37.4	44.0	55.5	59.6	60.3	69.5	75.0	75.5	81.9	82.4	83.6	85.6	87.6	88.0	89.5
27.5	37.4	44.0	55.6	59.8	60.4	69.6	75.1	75.6	82.5	83.0	84.3	86.3	88.3	88.6	90.1
27.5	37.4	44.0	55.6	59.9	60.5	69.9	75.4	75.9	83.1	83.6	85.1	87.1	89.4	89.8	91.3
27.5	37.4	44.0	55.6	60.0	60.6	70.0	75.8	76.3	83.9	84.9	86.5	88.5	91.0	91.4	92.9
27.5	37.4	44.0	55.6	60.3	60.9	70.3	76.0	76.5	84.5	85.1	87.9	89.9	92.5	93.3	95.0
27.5	37.4	44.0	55.6	60.4	61.0	70.4	76.4	76.9	85.0	85.6	88.6	90.9	94.0	94.5	97.1
27.5	37.4	44.0	55.6	60.4	61.0	70.4	76.4	76.9	85.0	85.6	88.6	91.1	94.4	95.0	98.1
27.5	37.4	44.0	55.6	60.4	61.0	70.4	76.4	76.9	85.0	85.6	88.6	91.1	94.5	95.5	99.0
27.5	37.4	44.0	55.6	60.4	61.0	70.4	76.4	76.9	85.0	85.6	88.6	91.1	94.5	95.5	99.0

TOTAL NUMBER OF OBSERVATIONS 800

10

10

100

[illegible]TOTAL NUMBER OF OBSERVATIONS 24

THE UNIVERSITY OF CHICAGO
CHICAGO, ILLINOIS

10-242-

[illegible]TOTAL NUMBER OF OBSERVATIONS 279

1943

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

11

532

INCIDENTS AND END OF OCCUPATION

152-2522

[illegible]TOTAL NUMBER OF OBSERVATIONS 29

CEILING VERSUS VISIBILITY

... ..

10

2.

TOTAL NUMBER OF OBSERVATIONS 73

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

CEILING VERSUS VISIBILITY

...C-7 145 PL...

— 10 —

22

DATE OF RECEIPT OF DOCUMENT

1000

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 11.7 | 12.7 | 13.7 | 14.7 | 15.7 | 16.7 | 17.7 | 18.7 | 19.7 | 20.7 | 21.7 | 22.7 | 23.7 | 24.7 | 25.7 | 26.7 | 27.7 | 28.7 | 29.7 | 30.7 |
| 11.8 | 12.8 | 13.8 | 14.8 | 15.8 | 16.8 | 17.8 | 18.8 | 19.8 | 20.8 | 21.8 | 22.8 | 23.8 | 24.8 | 25.8 | 26.8 | 27.8 | 28.8 | 29.8 | 30.8 |
| 11.9 | 12.9 | 13.9 | 14.9 | 15.9 | 16.9 | 17.9 | 18.9 | 19.9 | 20.9 | 21.9 | 22.9 | 23.9 | 24.9 | 25.9 | 26.9 | 27.9 | 28.9 | 29.9 | 30.9 |
| 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 | 30.0 | |
| 12.1 | 13.1 | 14.1 | 15.1 | 16.1 | 17.1 | 18.1 | 19.1 | 20.1 | 21.1 | 22.1 | 23.1 | 24.1 | 25.1 | 26.1 | 27.1 | 28.1 | 29.1 | 30.1 | |
| 12.2 | 13.2 | 14.2 | 15.2 | 16.2 | 17.2 | 18.2 | 19.2 | 20.2 | 21.2 | 22.2 | 23.2 | 24.2 | 25.2 | 26.2 | 27.2 | 28.2 | 29.2 | 30.2 | |
| 12.3 | 13.3 | 14.3 | 15.3 | 16.3 | 17.3 | 18.3 | 19.3 | 20.3 | 21.3 | 22.3 | 23.3 | 24.3 | 25.3 | 26.3 | 27.3 | 28.3 | 29.3 | 30.3 | |
| 12.4 | 13.4 | 14.4 | 15.4 | 16.4 | 17.4 | 18.4 | 19.4 | 20.4 | 21.4 | 22.4 | 23.4 | 24.4 | 25.4 | 26.4 | 27.4 | 28.4 | 29.4 | 30.4 | |
| 12.5 | 13.5 | 14.5 | 15.5 | 16.5 | 17.5 | 18.5 | 19.5 | 20.5 | 21.5 | 22.5 | 23.5 | 24.5 | 25.5 | 26.5 | 27.5 | 28.5 | 29.5 | 30.5 | |
| 12.6 | 13.6 | 14.6 | 15.6 | 16.6 | 17.6 | 18.6 | 19.6 | 20.6 | 21.6 | 22.6 | 23.6 | 24.6 | 25.6 | 26.6 | 27.6 | 28.6 | 29.6 | 30.6 | |
| 12.7 | 13.7 | 14.7 | 15.7 | 16.7 | 17.7 | 18.7 | 19.7 | 20.7 | 21.7 | 22.7 | 23.7 | 24.7 | 25.7 | 26.7 | 27.7 | 28.7 | 29.7 | 30.7 | |
| 12.8 | 13.8 | 14.8 | 15.8 | 16.8 | 17.8 | 18.8 | 19.8 | 20.8 | 21.8 | 22.8 | 23.8 | 24.8 | 25.8 | 26.8 | 27.8 | 28.8 | 29.8 | 30.8 | |
| 12.9 | 13.9 | 14.9 | 15.9 | 16.9 | 17.9 | 18.9 | 19.9 | 20.9 | 21.9 | 22.9 | 23.9 | 24.9 | 25.9 | 26.9 | 27.9 | 28.9 | 29.9 | 30.9 | |
| 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 | 30.0 | | |
| 13.1 | 14.1 | 15.1 | 16.1 | 17.1 | 18.1 | 19.1 | 20.1 | 21.1 | 22.1 | 23.1 | 24.1 | 25.1 | 26.1 | 27.1 | 28.1 | 29.1 | 30.1 | | |
| 13.2 | 14.2 | 15.2 | 16.2 | 17.2 | 18.2 | 19.2 | 20.2 | 21.2 | 22.2 | 23.2 | 24.2 | 25.2 | 26.2 | 27.2 | 28.2 | 29.2 | 30.2 | | |
| 13.3 | 14.3 | 15.3 | 16.3 | 17.3 | 18.3 | 19.3 | 20.3 | 21.3 | 22.3 | 23.3 | 24.3 | 25.3 | 26.3 | 27.3 | 28.3 | 29.3 | 30.3 | | |
| 13.4 | 14.4 | 15.4 | 16.4 | 17.4 | 18.4 | 19.4 | 20.4 | 21.4 | 22.4 | 23.4 | 24.4 | 25.4 | 26.4 | 27.4 | 28.4 | 29.4 | 30.4 | | |
| 13.5 | 14.5 | 15.5 | 16.5 | 17.5 | 18.5 | 19.5 | 20.5 | 21.5 | 22.5 | 23.5 | 24.5 | 25.5 | 26.5 | 27.5 | 28.5 | 29.5 | 30.5 | | |
| 13.6 | 14.6 | 15.6 | 16.6 | 17.6 | 18.6 | 19.6 | 20.6 | 21.6 | 22.6 | 23.6 | 24.6 | 25.6 | 26.6 | 27.6 | 28.6 | 29.6 | 30.6 | | |
| 13.7 | 14.7 | 15.7 | 16.7 | 17.7 | 18.7 | 19.7 | 20.7 | 21.7 | 22.7 | 23.7 | 24.7 | 25.7 | 26.7 | 27.7 | 28.7 | 29.7 | 30.7 | | |
| 13.8 | 14.8 | 15.8 | 16.8 | 17.8 | 18.8 | 19.8 | 20.8 | 21.8 | 22.8 | 23.8 | 24.8 | 25.8 | 26.8 | 27.8 | 28.8 | 29.8 | 30.8 | | |
| 13.9 | 14.9 | 15.9 | 16.9 | 17.9 | 18.9 | 19.9 | 20.9 | 21.9 | 22.9 | 23.9 | 24.9 | 25.9 | 26.9 | 27.9 | 28.9 | 29.9 | | | |

TOTAL NUMBER OF ORNERS, AND NO. _____

CLIMATE AND CLIMATOLOGY BRANCH
 1000
 1000

CEILING VERSUS VISIBILITY

POST OFFICE

73-31

224

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM FOUR OBSERVATIONS

9-3-1402

| | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 13.7 | 17.3 | 18.2 | 20.3 | 21.5 | 21.6 | 22.4 | 22.7 | 23.7 | 25.8 | 25.8 | 22.4 | 25.8 | 23.7 | 23.7 | 21.1 |
| 14.1 | 21.1 | 21.4 | 23.9 | 25.2 | 25.5 | 26.4 | 26.5 | 28.1 | 27.1 | 27.1 | 27.4 | 27.4 | 27.5 | 27.5 | 28.2 |
| 14.1 | 25.8 | 23.1 | 24.7 | 26.1 | 26.3 | 27.4 | 27.7 | 27.7 | 28.1 | 28.1 | 28.7 | 28.7 | 28.5 | 28.5 | 29.7 |
| 14.1 | 25.2 | 23.2 | 24.7 | 26.1 | 26.3 | 27.4 | 27.7 | 27.7 | 28.1 | 28.1 | 28.7 | 28.7 | 28.5 | 28.5 | 29.7 |
| 14.1 | 25.1 | 23.3 | 25.1 | 26.3 | 26.3 | 26.5 | 27.6 | 28.1 | 28.1 | 28.1 | 28.5 | 28.5 | 28.5 | 28.5 | 29.4 |
| 14.1 | 25.1 | 23.1 | 26.3 | 27.6 | 27.9 | 28.9 | 29.3 | 29.3 | 29.7 | 29.8 | 29.9 | 29.9 | 30.1 | 30.1 | 30.7 |
| 14.1 | 25.5 | 25.2 | 28.5 | 29.3 | 29.5 | 30.6 | 31.5 | 31.7 | 31.7 | 31.5 | 31.5 | 31.5 | 31.5 | 31.5 | 32.4 |
| 14.1 | 25.3 | 27.7 | 30.5 | 31.8 | 32.1 | 33.3 | 33.7 | 33.7 | 34.1 | 34.2 | 34.3 | 34.3 | 34.5 | 34.5 | 35.2 |
| 14.1 | 25.3 | 30.1 | 34.5 | 35.3 | 35.7 | 36.9 | 37.5 | 37.5 | 37.6 | 37.9 | 38.1 | 38.1 | 38.1 | 38.1 | 38.3 |
| 14.1 | 30.7 | 32.5 | 37.1 | 38.3 | 39.1 | 40.5 | 41.1 | 41.1 | 41.4 | 41.5 | 41.7 | 41.7 | 41.5 | 41.5 | 42.5 |
| 14.1 | 31.1 | 37.5 | 39.1 | 39.5 | 40.8 | 41.4 | 41.4 | 41.9 | 41.9 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.9 |
| 14.1 | 31.5 | 34.1 | 39.7 | 40.6 | 41.1 | 42.7 | 43.5 | 43.5 | 44.1 | 44.2 | 44.2 | 44.3 | 44.5 | 44.5 | 45.1 |
| 14.1 | 34.3 | 35.5 | 41.3 | 42.2 | 42.7 | 45.4 | 46.1 | 46.2 | 46.7 | 46.8 | 46.9 | 47.1 | 47.1 | 47.1 | 47.1 |
| 14.1 | 35.1 | 35.8 | 44.3 | 45.2 | 45.7 | 48.5 | 49.2 | 49.2 | 49.9 | 50.1 | 50.2 | 50.3 | 50.5 | 50.5 | 51.1 |
| 14.1 | 37.7 | 40.5 | 46.2 | 48.5 | 49.1 | 51.3 | 52.5 | 52.7 | 52.7 | 52.9 | 53.1 | 53.2 | 53.2 | 53.2 | 53.9 |
| 14.1 | 41.2 | 43.3 | 50.1 | 52.7 | 53.2 | 55.8 | 56.5 | 56.5 | 57.7 | 57.2 | 58.1 | 58.1 | 58.3 | 58.3 | 59.1 |
| 14.1 | 41.2 | 44.7 | 51.7 | 55.3 | 55.9 | 59.1 | 60.3 | 60.4 | 61.2 | 61.3 | 61.5 | 61.6 | 61.6 | 61.6 | 62.5 |
| 14.1 | 44.1 | 47.4 | 55.5 | 59.7 | 60.4 | 64.2 | 65.8 | 65.8 | 66.9 | 67.1 | 67.1 | 67.3 | 67.5 | 67.5 | 68.3 |
| 14.1 | 44.5 | 47.7 | 55.1 | 60.5 | 61.2 | 65.1 | 66.7 | 66.9 | 67.8 | 67.9 | 68.1 | 68.3 | 68.5 | 68.5 | 69.7 |
| 14.1 | 46.2 | 49.7 | 58.2 | 62.7 | 63.5 | 67.7 | 69.6 | 69.7 | 71.8 | 71.2 | 71.1 | 71.3 | 71.5 | 71.5 | 72.3 |
| 14.1 | 47.9 | 50.1 | 61.7 | 67.1 | 67.9 | 72.7 | 74.9 | 75.2 | 76.6 | 76.7 | 77.7 | 77.3 | 77.5 | 77.5 | 78.1 |
| 14.1 | 46.9 | 53.2 | 63.6 | 69.3 | 70.2 | 76.1 | 78.9 | 79.1 | 80.7 | 80.8 | 81.0 | 81.4 | 81.6 | 81.6 | 82.1 |
| 14.1 | 49.1 | 53.4 | 64.3 | 70.7 | 71.9 | 77.4 | 80.6 | 80.5 | 82.5 | 82.6 | 82.8 | 83.2 | 83.4 | 83.4 | 84.4 |
| 14.1 | 49.2 | 53.5 | 65.2 | 70.9 | 71.9 | 78.6 | 81.9 | 82.1 | 84.2 | 84.2 | 84.4 | 84.8 | 85.2 | 85.2 | 86.1 |
| 14.1 | 49.5 | 54.0 | 65.5 | 71.7 | 72.5 | 79.4 | 82.6 | 82.9 | 84.5 | 84.7 | 85.1 | 85.5 | 85.5 | 85.5 | 86.5 |
| 14.1 | 49.6 | 54.1 | 66.1 | 72.7 | 74.1 | 80.9 | 84.5 | 85.1 | 87.3 | 87.4 | 87.6 | 88.2 | 88.4 | 88.5 | 89.5 |
| 14.1 | 49.5 | 54.3 | 66.5 | 73.3 | 74.8 | 82.2 | 86.6 | 87.7 | 90.5 | 90.7 | 90.5 | 90.9 | 91.7 | 91.4 | 92.7 |
| 14.1 | 49.6 | 54.7 | 66.5 | 73.3 | 74.8 | 82.4 | 87.2 | 87.8 | 91.1 | 91.5 | 91.8 | 92.3 | 93.3 | 93.4 | 94.1 |
| 14.1 | 49.5 | 54.7 | 66.5 | 73.3 | 74.8 | 82.4 | 87.2 | 87.9 | 91.5 | 92.4 | 92.4 | 93.4 | 94.8 | 95.7 | 97.4 |
| 14.1 | 49.6 | 54.7 | 66.5 | 73.3 | 74.8 | 82.4 | 87.2 | 87.9 | 91.6 | 92.4 | 93.7 | 93.9 | 95.5 | 96.4 | 99.3 |
| 14.1 | 49.5 | 54.7 | 66.5 | 73.3 | 74.8 | 82.4 | 87.2 | 87.9 | 91.6 | 92.4 | 93.7 | 93.9 | 95.5 | 96.5 | 99.5 |
| 14.1 | 49.6 | 54.3 | 66.5 | 73.3 | 74.8 | 82.4 | 87.2 | 87.9 | 91.6 | 92.4 | 93.7 | 93.9 | 95.7 | 96.5 | 99.5 |

TOTAL NUMBER OF OBSERVATIONS 137[illegible]

CEILING VERSUS VISIBILITY

PERCENTAGE REDUCTION OF OCCURRENCE
FROM HIGHER TO LOWER CLOUDS

1210-1400

| | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 |
| 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 |
| 41.0 | 42.0 | 43.0 | 44.0 | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 | 50.0 | 51.0 | 52.0 | 53.0 | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 |
| 61.0 | 62.0 | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |
| 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 | 90.0 | 91.0 | 92.0 | 93.0 | 94.0 | 95.0 | 96.0 | 97.0 | 98.0 | 99.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1210-1400

$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$

2
FEDERAL BUREAU OF INVESTIGATION
U.S. DEPARTMENT OF JUSTICE
WASHINGTON, D.C. 20535

CEILING VERSUS VISIBILITY

STATION: [REDACTED] HEIGHT: [REDACTED] MAF: [REDACTED]

72-81

0-1

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM 1000 HOURS OBSERVATIONS

ALL

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 20.0 | 20.5 | 21.0 | 21.5 | 22.0 | 22.5 | 23.0 | 23.5 | 24.0 | 24.5 | 25.0 | 25.5 | 26.0 | 26.5 | 27.0 | 27.5 | 28.0 | 28.5 | 29.0 | 29.5 | 30.0 | 30.5 | 31.0 | 31.5 | 32.0 | 32.5 | 33.0 | 33.5 | 34.0 | 34.5 | 35.0 | 35.5 | 36.0 | 36.5 | 37.0 | 37.5 | 38.0 | 38.5 | 39.0 | 39.5 | 40.0 | 40.5 | 41.0 | 41.5 | 42.0 | 42.5 | 43.0 | 43.5 | 44.0 | 44.5 | 45.0 | 45.5 | 46.0 | 46.5 | 47.0 | 47.5 | 48.0 | 48.5 | 49.0 | 49.5 | 50.0 | 50.5 | 51.0 | 51.5 | 52.0 | 52.5 | 53.0 | 53.5 | 54.0 | 54.5 | 55.0 | 55.5 | 56.0 | 56.5 | 57.0 | 57.5 | 58.0 | 58.5 | 59.0 | 59.5 | 60.0 | 60.5 | 61.0 | 61.5 | 62.0 | 62.5 | 63.0 | 63.5 | 64.0 | 64.5 | 65.0 | 65.5 | 66.0 | 66.5 | 67.0 | 67.5 | 68.0 | 68.5 | 69.0 | 69.5 | 70.0 | 70.5 | 71.0 | 71.5 | 72.0 | 72.5 | 73.0 | 73.5 | 74.0 | 74.5 | 75.0 | 75.5 | 76.0 | 76.5 | 77.0 | 77.5 | 78.0 | 78.5 | 79.0 | 79.5 | 80.0 | 80.5 | 81.0 | 81.5 | 82.0 | 82.5 | 83.0 | 83.5 | 84.0 | 84.5 | 85.0 | 85.5 | 86.0 | 86.5 | 87.0 | 87.5 | 88.0 | 88.5 | 89.0 | 89.5 | 90.0 | 90.5 | 91.0 | 91.5 | 92.0 | 92.5 | 93.0 | 93.5 | 94.0 | 94.5 | 95.0 | 95.5 | 96.0 | 96.5 | 97.0 | 97.5 | 98.0 | 98.5 | 99.0 | 99.5 | 100.0 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|

TOTAL NUMBER OF OBSERVATIONS: 1000

U.S. GOVERNMENT PRINTING OFFICE: 1964 O - 348-000

7. 1

46.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

TOTAL NUMBER OF OBSERVATIONS 197

CEILING VERSUS VISIBILITY

SECRET

7-3'

344

PERMANENT END OF DEBARMENT
FROM YOUR ORGANIZATION

— 2 —

[illegible]TOTAL NUMBER OF OBSERVATIONS 25

1. The first step is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

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454

REYNOLDS, J. D. 1970. O. ALBERTA, P. 10.

42-3-14-2

[illegible]TOTAL NUMBER OF OBSERVATIONS 270

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

10-11-68

100-116

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STATEMENT OF PURPOSE

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

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TOTAL NUMBER OF OBSERVATIONS _____ 124

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TOTAL NUMBER OF OBSERVATIONS:

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1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

SECRET

1. *Journal of the American Medical Association*, 1997; 278: 1021-1025.

1925

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TOTAL NUMBER OF OBSERVATIONS: _____

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D).

DATE: 11/12/1945

A. 1.

TOTAL NUMBER OF OBSERVATIONS _____ 7169

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:

- a. Daily maximum temperatures DATA NOT AVAILABLE
- b. Daily minimum temperatures DATA NOT AVAILABLE
- c. Daily mean temperatures DATA NOT AVAILABLE

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:

- a. Extreme maximum temperature
- b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) * indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

* Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares (ΣX^2), sums of values (ΣX), means (\bar{X}), and standard deviations (σX). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 01-11-2001 BY 60322 UCBAW/STP

YEARS

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PSYCHROMETRIC SUMMARY

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YEARS

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USAFETAC
FORM
JUL 64
0-26-5 (OL A)
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PSYCHROMETRIC SUMMARY

$$M \cong N \oplus \mathbb{Z}$$

1000

| Temp
(F) | WET BULB TEMPERATURE DEPRESSION (F) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TOTAL | | TOTAL | |
|-------------|-------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----------|----------|-----------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. W.B. | Dry Bulb | Wet Bulb | Dew Point |
| 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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STATION NAME

YEARS

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TOTAL

D.B. W.B. Dry Bulb Wet Bulb Dew Point

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7-11-1982

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USAFETAC FORM JUL 64

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USAFETAC
FORM
JUL 84
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

| STATION | STATION NAME | YEARS | MONTH | NO. OF DAYS |
|----------|---|--------------------------|----------------|-------------|
| Temp (F) | WET BULB TEMPERATURE DEPRESSION (F) | TOTAL D.B. W.B. Dry Bulb | TOTAL Wet Bulb | Dew Point |
| 0 | 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31 | | | |
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USAFETAC FORM 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64

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1. CONFIDENTIAL

44-45

[illegible]

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC
FORM
NA 64
0-26-5 (OLA)
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STATION

STATION NAME

YEARS

222

428

[illegible]

PSYCHROMETRIC SUMMARY

STATION

STATION NAME

YEARS

MONTH

HOURS

| Temp
(F) | WET BULB TEMPERATURE DEPRESSION (F) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TOTAL | | TOTAL | | |
|-------------|-------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-------------|----------|----------|-----------|--|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | + 31 | D.B. - W.B. | Dry Bulb | Wet Bulb | Dew Point | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| + 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D.B. - W.B. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dry Bulb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wet Bulb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dew Point | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Element (X) | ΣX | ΣX^2 | \bar{X} | σ^2 | No. Obs. | Mean No. of Hours with Temperature | | | | | Total | |
|-------------|------------|--------------|-----------|------------|----------|------------------------------------|-------------|-------------|-------------|-------------|-------------|--|
| | | | | | | ≤ 0 F | ≤ 32 F | ≤ 67 F | ≤ 73 F | ≤ 80 F | ≤ 93 F | |
| Rel. Hum. | 187 | 35265 | 3.6 | 12.4 | 74 | | | | | | | |
| Dry Bulb | 13444 | 1115 | 182 | 6.437 | 74 | | | | | | | |
| Wet Bulb | 1127 | 7435 | 15.2 | 6.71 | 74 | | | | | | | |
| Dew Point | 10469 | 3180 | 14.1 | 6.67 | 74 | | | | | | | |

2017-2018

TOTAL

D.B. W.B. Dry Bulb We. Bulb Dew Point

USAFETAC
FORM
JUL 64
0-26-S (OL A)
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PSYCHROMETRIC SUMMARY

STATION NAME

YEARS

$$M_{\text{eff}} = M_0 + \frac{1}{2} M_1 + \frac{1}{6} M_2 + \dots$$

100

[illegible]

USAFETAC
FORM
JUL 64
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

1. THE UNIVERSITY OF CALIFORNIA
2. THE UNIVERSITY OF CALIFORNIA
3. THE UNIVERSITY OF CALIFORNIA

YEARS

USAFETAC
FORM
JAN 64
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PSYCHROMETRIC SUMMARY

STATION NAME

YEARS

44

499

[illegible]

| STATION | STATION NAME |
|---------|--------------|
|---------|--------------|

2025

HOURS . . . 5 . *

[illegible]

THE UNIVERSITY OF CHICAGO

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 ۱۰۰

| Temp.
(F) | WET BULB TEMPERATURE DEPRESSION (F) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TOTAL | | TOTAL | |
|--------------|-------------------------------------|-----|-----|-----|-----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|----------|----------|-----------|-------|--|
| | 0 | 1-2 | 3-4 | 5-6 | 7-8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point | | |

| Element (X) | ΣX | ΣX^2 | ΣX^3 | ΣX^4 | No. Obs. | Mean No. of Hours with Temperature | | | | | | |
|-------------|------------|--------------|--------------|---------------|----------|------------------------------------|--------|--------|--------|--------|--------|-------|
| Rel. Hum. | 1 3 5 7 | 1 9 25 49 | 1 27 125 343 | 1 81 625 2401 | 4 | ≤ 0 F | ≤ 32 F | ≤ 67 F | ≤ 73 F | ≤ 80 F | ≤ 93 F | Total |
| Dry Bulb | 1 3 5 7 | 1 9 25 49 | 1 27 125 343 | 1 81 625 2401 | 4 | | | 11.4 | 2.6 | | | 14 |
| Wet Bulb | 1 3 5 7 | 1 9 25 49 | 1 27 125 343 | 1 81 625 2401 | 4 | | | | | | | 4 |
| Dew Point | 1 3 5 7 | 1 9 25 49 | 1 27 125 343 | 1 81 625 2401 | 4 | | 8.7 | | | | | 9 |

USAFETAC
FORM
JUL 64
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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USAFETAC
FORM
JUL 64
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2017

NOJRS . 5 .

[illegible]

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

5-2-1

[illegible]

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).
2. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).
3. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

YEARS

[illegible]

THE UNIVERSITY OF CHICAGO

YEARS

2000

50.95

[illegible]

USAFETAC
FORM
JUL 64
0-26-5 (OL A)
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YEARS

[illegible]

USAFETAC
FORM
JUL 44
0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

424

1

HOURS

[illegible]

PSYCHROMETRIC SUMMARY

STATION

STATION NAME

YEARS

MCN⁹

HOURS . . . 5 . . .

[illegible]

U.S. AIR FORCE, RANDOLPH AIR FORCE BASE, TEXAS
10 OCT 1954

| STATION | STATION NAME | YEARS | MONTHS | HOURS |
|---------|--------------|-------|--------|-------|
| | | | | |

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USAFETAC FORM JUL 64 0-26-5 (OLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

YEARS

MON*

NOJRS S. V.

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PSYCHROMETRIC SUMMARY

STATION STATION NAME

YEARS

2000

HOURS: 5:00

[illegible]

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-27-2009 BY 60322 UCBAW/BJS

STATION _____ NIGHT _____ DAY _____ STATION NAME _____ YEARS _____ MONTH _____
 HOURS _____

[illegible]

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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NOJRS S. 7

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 68

PSYCHROMETRIC SUMMARY

YEARS

NO. 85

[illegible]

USAFETAC
FORM
JUL 64
0-26-5 (OL A)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2.2.2.

1000

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AD-A131 188 FEUCHT AAF GERMANY (WEST) REVISED UNIFORM SUMMARY OF
SURFACE WEATHER OBS..(U) AIR FORCE ENVIRONMENTAL
TECHNICAL APPLICATIONS CENTER SCOTT A.. MAY 83
UNCLASSIFIED USAFETAC/DS-83/012 SBI-AD-E850 390 F/G 4/2

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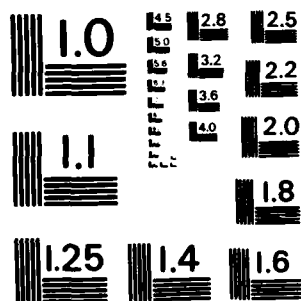
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ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 08-22-2001 BY 60322 UCBAW

$$M = A^T n$$

MOJRS . 5 . *

DECLASSIFICATION AUTHORITY
DATE 08/20/2013 BY 60322

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USAFETAC **FORM** **0-26.5 (OLA)** **REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE**
JUL 64

40 JRS

[illegible]

REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FORM
JUL 64

USAFETAC

| STATION | STATION NAME | YEARS | MONTH | HOURS |
|---|--------------|-------|-------|-------|
| <div style="display: flex; justify-content: space-between;"> <div> <p>Temp (F)</p> <p>0 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 31</p> </div> <div> <p>WET BULB TEMPERATURE DEPRESSION (F)</p> </div> <div> <p>TOTAL D.B. W.B. Dry Bulb Wet Bulb Dew Point</p> </div> </div> | | | | |
| Data rows for temperature depression | | | | |
| Summary rows | | | | |

1995

$$M \leq 4 \times 10^9$$

ENCLOSURE

[illegible]

424

NCJRS

THE UNIVERSITY OF CHICAGO PRESS
50 EAST LEXINGTON AVENUE
NEW YORK, N.Y. 10017-2478

4-4-6

HOURS .. 5 .

[illegible]

PSYCHROMETRIC SUMMARY

| STATION | STATION NAME |
|---------|--------------|
| 1 | STATION NAME |

YEARS

$$M \subset N^+ \cup$$

28 - 2 - 1

ALL
HOURS

[illegible]

U.S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D. C. 20250

MINI

NOJRS . . S. .

[illegible]

PSYCHROMETRIC SUMMARY

YEARS

[illegible]

424

| Element (X) | ΣX^2 | ΣX | \bar{X} | No. Obs. | Mean No. of Hours with Temperature | | | | | | |
|-------------|--------------|------------|-----------|----------|------------------------------------|------|------|------|------|------|-------|
| Rel. Hum. | 4 4 4 | 12 | 7.3 | 3 | 0 F | 32 F | 67 F | 73 F | 80 F | 93 F | Total |
| Dry Bulb | 7 7 7 | 21 | 7.0 | 3 | | | | | | | |
| Wet Bulb | 1 4 7 | 12 | 4.0 | 3 | | | | | | | |
| Dew Point | 1 4 7 | 12 | 4.0 | 3 | | | | | | | |

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[illegible]

[illegible]

4-4-4

NO. 195

[illegible]

MCN² =

[illegible]

42,185

| Temp
(F) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | * 31 | TOTAL
D.B., W.B., Dry Bulb | TOTAL
Wet Bulb Dew Po. |
|-------------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-------------------------------|---------------------------|
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USAFETAC
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0-26-5 (OLA)
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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YEARS

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2008

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1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

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PSYCHROMETRIC SUMMARY

CLIMATE DATA CENTER
 WASHINGTON, D.C. 20341

STATION: ALBUQUERQUE STATION NAME: ALBUQUERQUE YEARS: 1961-1970
 MONTH: ALL HOURS: ALL

| Temp.
(F) | WET BULB TEMPERATURE DEPRESSION (F) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TOTAL | | TOTAL | | |
|--------------|-------------------------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|------|----------|----------|-----------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | D.B. | W.B. | Dry Bulb | Wet Bulb | Dew Point |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Element (X) | ΣX | ΣX^2 | \bar{X} | σ^2 | No. Obs. | Mean No. of Hours with Temperature | | | | | Total | |
|-------------|------------|--------------|-----------|------------|----------|------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---|
| | | | | | | $\leq 0^\circ\text{F}$ | $\leq 32^\circ\text{F}$ | $\leq 67^\circ\text{F}$ | $\leq 73^\circ\text{F}$ | $\leq 80^\circ\text{F}$ | $\leq 93^\circ\text{F}$ | |
| Ref. Num. | 4 | 16 | 2.0 | 0.0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Dry Bulb | 73 | 5329 | 18.25 | 1.56 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Wet Bulb | 71.2 | 5069.44 | 17.8 | 1.46 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Dew Point | 45 | 2025 | 11.25 | 0.56 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |

1
2
1
FEDERAL CLIMATOLOGY BRANCH
ETAC
WEATHER SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

WIND- GLE TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1
2
1
STATION: FLECHT AAF DL

70-81

| STATION | STATION NAME | YEARS | | | | | | | | | | | | |
|-----------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| HRS | EST | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN A |
| MEAN | | 31.8 | 29.9 | 25.7 | 28.9 | 49.1 | 55.9 | 57.2 | 58.5 | 51.1 | 42.2 | 35.5 | 21.1 | 31.8 |
| S D | | 7.294 | 7.25 | 7.400 | 6.407 | 6.976 | 6.725 | 5.845 | 5.700 | 6.284 | 6.045 | 7.125 | 8.85 | 12.400 |
| TOTAL OBS | | 775 | 738 | 824 | 749 | 813 | 792 | 800 | 822 | 800 | 815 | 797 | 770 | 7774 |
| MEAN | | 31.1 | 32.7 | 40.7 | 40.1 | 55.7 | 62.8 | 64.2 | 64.7 | 58.2 | 40.4 | 37.8 | 20.7 | 37.9 |
| S D | | 6.479 | 6.745 | 7.746 | 6.884 | 8.196 | 8.265 | 7.691 | 6.811 | 7.348 | 7.122 | 7.41 | 8.031 | 14.650 |
| TOTAL OBS | | 775 | 758 | 836 | 800 | 821 | 803 | 835 | 832 | 878 | 823 | 875 | 804 | 8752 |
| MEAN | | 33.0 | 37.2 | 48.5 | 50.0 | 60.3 | 66.4 | 67.6 | 69.4 | 61.3 | 51.2 | 40.0 | 34.0 | 51.0 |
| S D | | 6.378 | 6.674 | 8.944 | 9.405 | 9.323 | 9.129 | 8.838 | 7.579 | 8.353 | 7.96 | 7.135 | 7.775 | 16.214 |
| TOTAL OBS | | 775 | 756 | 835 | 805 | 819 | 804 | 822 | 876 | 809 | 825 | 802 | 802 | 8741 |
| MEAN | | 33.0 | 38.1 | 40.8 | 51.0 | 61.3 | 67.0 | 68.9 | 70.2 | 64.0 | 51.7 | 40.2 | 34.0 | 51.0 |
| S D | | 6.311 | 6.756 | 9.139 | 9.703 | 9.234 | 9.219 | 8.956 | 7.793 | 8.709 | 8.069 | 7.076 | 7.41 | 14.91 |
| TOTAL OBS | | 814 | 879 | 863 | 800 | 803 | 807 | 824 | 876 | 897 | 841 | 894 | 800 | 8374 |
| MEAN | | 30.0 | 35.6 | 40.1 | 49.5 | 60.4 | 68.8 | 67.9 | 68.5 | 61.4 | 48.0 | 39.3 | 37.0 | 51.0 |
| S D | | 6.066 | 6.872 | 8.034 | 9.108 | 8.987 | 9.085 | 8.399 | 7.507 | 8.064 | 7.050 | 7.137 | 7.777 | 15.010 |
| TOTAL OBS | | 874 | 144 | 101 | 177 | 172 | 177 | 172 | 191 | 150 | 174 | 150 | 101 | 8173 |
| MEAN | | | | | | | | | | | | | | |
| S D | | | | | | | | | | | | | | |
| TOTAL OBS | | | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | | | |
| S D | | | | | | | | | | | | | | |
| TOTAL OBS | | | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | | | |
| S D | | | | | | | | | | | | | | |
| TOTAL OBS | | | | | | | | | | | | | | |
| ALL HOURS | | 31.0 | 34.3 | 42.1 | 40.5 | 56.5 | 61.0 | 64.4 | 65.1 | 58.9 | 47.7 | 35.8 | 27.1 | 45.1 |
| S D | | 7.247 | 7.445 | 9.415 | 9.701 | 9.701 | 9.467 | 9.079 | 8.800 | 9.207 | 8.312 | 7.078 | 8.455 | 14.453 |
| TOTAL OBS | | 3174 | 2984 | 3351 | 3107 | 3228 | 3193 | 3273 | 3308 | 3172 | 3009 | 3146 | 3166 | 32474 |

1. REAL CLIMATOLOGY BRANCH
ETAC
2. DATA SERVICE/MAC

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1. FLIGHT AAF DL

73-31

| STATION NAME | | YEARS | | | | | | | | | | | | ANN 4 |
|--------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| 1 | MEAN | 70.1 | 70.1 | 73.7 | 74.0 | 72.9 | 51.1 | 51.4 | 72.0 | 48.2 | 41.7 | 70.4 | 70.1 | 70.4 |
| | S D | 6.10 | 7.167 | 7.314 | 6.729 | 6.537 | 5.759 | 4.977 | 5.412 | 6.142 | 6.491 | 7.149 | 6.279 | 11.315 |
| | TOTAL OBS | 174 | 738 | 634 | 719 | 613 | 791 | 627 | 673 | 670 | 615 | 727 | 774 | 7569 |
| -1 | MEAN | 70.1 | 70.1 | 73.7 | 74.0 | 72.9 | 49.3 | 52.3 | 53.3 | 49.7 | 41.0 | 34.0 | 70.0 | 4.7 |
| | S D | 7.386 | 6.571 | 7.327 | 6.712 | 7.119 | 6.376 | 5.459 | 5.533 | 5.878 | 6.458 | 6.543 | 6.881 | 11.34 |
| | TOTAL OBS | 714 | 756 | 634 | 718 | 601 | 601 | 635 | 674 | 605 | 673 | 715 | 604 | 7760 |
| 1 - 1 | MEAN | 70.1 | 70.1 | 73.7 | 74.0 | 72.9 | 48.7 | 51.4 | 52.4 | 49.7 | 41.4 | 35.0 | 70.0 | 4.7 |
| | S D | 6.047 | 6.399 | 6.911 | 7.113 | 7.126 | 5.479 | 5.611 | 6.171 | 6.466 | 6.615 | 6.421 | 7.799 | 10.797 |
| | TOTAL OBS | 714 | 752 | 634 | 718 | 619 | 604 | 622 | 676 | 619 | 636 | 672 | 619 | 7731 |
| - | MEAN | 70.1 | 70.1 | 73.7 | 74.0 | 72.9 | 48.0 | 51.1 | 51.6 | 48.2 | 40.0 | 30.0 | 70.0 | 19.4 |
| | S D | 6.434 | 6.611 | 6.817 | 7.114 | 7.595 | 5.377 | 5.923 | 6.096 | 6.178 | 6.277 | 6.782 | 7.993 | 10.682 |
| | TOTAL OBS | 714 | 577 | 634 | 717 | 602 | 607 | 623 | 675 | 607 | 641 | 594 | 671 | 7367 |
| - | MEAN | 70.1 | 70.1 | 73.7 | 74.0 | 72.9 | 48.9 | 51.0 | 52.0 | 49.7 | 40.5 | 30.4 | 71.0 | 4.3 |
| | S D | 6.070 | 6.857 | 6.408 | 7.117 | 7.445 | 5.971 | 6.043 | 5.772 | 6.573 | 6.113 | 6.575 | 7.727 | 1.653 |
| | TOTAL OBS | 714 | 149 | 634 | 177 | 172 | 177 | 171 | 179 | 155 | 174 | 159 | 141 | 1027 |
| | MEAN | | | | | | | | | | | | | |
| | S D | | | | | | | | | | | | | |
| | TOTAL OBS | | | | | | | | | | | | | |
| | MEAN | | | | | | | | | | | | | |
| | S D | | | | | | | | | | | | | |
| | TOTAL OBS | | | | | | | | | | | | | |
| ALL HOURS | MEAN | 70.1 | 70.4 | 73.4 | 74.1 | 72.5 | 49.3 | 51.7 | 52.4 | 49.1 | 41.3 | 34.4 | 70.1 | 70.3 |
| | S D | 6.132 | 6.515 | 6.927 | 6.777 | 7.185 | 6.243 | 5.560 | 5.610 | 6.366 | 6.574 | 6.895 | 6.447 | 11.33 |
| | TOTAL OBS | 714 | 2972 | 3357 | 3186 | 2227 | 3182 | 3271 | 3375 | 2172 | 3259 | 3147 | 3145 | 35457 |

STATION

STATION NAME

PERIOD

MONTH

[illegible]

FORM
JUL 64

0-87-5 (OL A)

STATION

STATION NAME

PERIOD

MON

MONTH

HOURS
(LST)

PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN

MEAN
RELATIVE
HUMIDITY

TOTAL
NO OF
OBS

TOTALS

USAFETACFORM
JUL 64

0-87.5 (OL A)

| STATION | STATION NAME | PERIOD | MONTH |
|---------|--------------|--------|-------|
| 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 |
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| 93 | 93 | 93 | 93 |
| 94 | 94 | 94 | 94 |
| 95 | 95 | 95 | 95 |
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1. *Pharmaceuticals* (1997) 10: 101-110.
 2. *Pharmaceuticals* (1998) 11: 101-110.
 3. *Pharmaceuticals* (1999) 12: 101-110.
 4. *Pharmaceuticals* (2000) 13: 101-110.
 5. *Pharmaceuticals* (2001) 14: 101-110.
 6. *Pharmaceuticals* (2002) 15: 101-110.
 7. *Pharmaceuticals* (2003) 16: 101-110.
 8. *Pharmaceuticals* (2004) 17: 101-110.
 9. *Pharmaceuticals* (2005) 18: 101-110.
 10. *Pharmaceuticals* (2006) 19: 101-110.
 11. *Pharmaceuticals* (2007) 20: 101-110.
 12. *Pharmaceuticals* (2008) 21: 101-110.
 13. *Pharmaceuticals* (2009) 22: 101-110.
 14. *Pharmaceuticals* (2010) 23: 101-110.
 15. *Pharmaceuticals* (2011) 24: 101-110.
 16. *Pharmaceuticals* (2012) 25: 101-110.
 17. *Pharmaceuticals* (2013) 26: 101-110.
 18. *Pharmaceuticals* (2014) 27: 101-110.
 19. *Pharmaceuticals* (2015) 28: 101-110.
 20. *Pharmaceuticals* (2016) 29: 101-110.
 21. *Pharmaceuticals* (2017) 30: 101-110.
 22. *Pharmaceuticals* (2018) 31: 101-110.
 23. *Pharmaceuticals* (2019) 32: 101-110.
 24. *Pharmaceuticals* (2020) 33: 101-110.
 25. *Pharmaceuticals* (2021) 34: 101-110.
 26. *Pharmaceuticals* (2022) 35: 101-110.
 27. *Pharmaceuticals* (2023) 36: 101-110.
 28. *Pharmaceuticals* (2024) 37: 101-110.
 29. *Pharmaceuticals* (2025) 38: 101-110.
 30. *Pharmaceuticals* (2026) 39: 101-110.
 31. *Pharmaceuticals* (2027) 40: 101-110.
 32. *Pharmaceuticals* (2028) 41: 101-110.
 33. *Pharmaceuticals* (2029) 42: 101-110.
 34. *Pharmaceuticals* (2030) 43: 101-110.
 35. *Pharmaceuticals* (2031) 44: 101-110.
 36. *Pharmaceuticals* (2032) 45: 101-110.
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 39. *Pharmaceuticals* (2035) 48: 101-110.
 40. *Pharmaceuticals* (2036) 49: 101-110.
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 93. *Pharmaceuticals* (2089) 102: 101-110.
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 95. *Pharmaceuticals* (2091) 104: 101-110.
 96. *Pharmaceuticals* (2092) 105: 101-110.
 97. *Pharmaceuticals* (2093) 106: 101-110.
 98. *Pharmaceuticals* (2094) 107: 101-110.
 99. *Pharmaceuticals* (2095) 108: 101-110.
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 101. *Pharmaceuticals* (2097) 110: 101-110.
 102. *Pharmaceuticals* (2098) 111: 101-110.
 103. *Pharmaceuticals* (2099) 112: 101-110.
 104. *Pharmaceuticals* (2100) 113: 101-110.
 105. *Pharmaceuticals* (2101) 114: 101-110.
 106. *Pharmaceuticals* (2102) 115: 101-110.
 107. *Pharmaceuticals* (2103) 116: 101-110.
 108. *Pharmaceuticals* (2104) 117: 101-110.
 109. *Pharmaceuticals* (2105) 118: 101-110.
 110. *Pharmaceuticals* (2106) 119: 101-110.

MONTH

$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$

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0-87-5 (OL A)

RELATIVE HUMIDITY

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

[illegible]

STATION

STATION NAME

PERIOD

MONTH

[illegible]

RELATIVE HUMIDITY

MONTH

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)**

[illegible]

STATION

STATION NAME

PERIOD

MONTH

[illegible]

MONTH

[illegible]

2

STATION

STATION NAME

PERIOD

MONTH

[illegible]**USAFETAC**FORM
FILM

0-87-5 (OL A)

RELATIVE HUMIDITY

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

[illegible]

0-87-5 (OL A)

STATION

STATION NAME

PERIOD

MONTH

[illegible]**USAFETAC**FORM
11-1-54

0-87-5 (OL A)

RELATIVE HUMIDITY

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

[illegible]FORM
M.M. 4-1

0-87-5 (OL A)

U S AIR FORCE
ENVIRONMENTAL TECHNICAL
APPLICATIONS CENTER

PART F

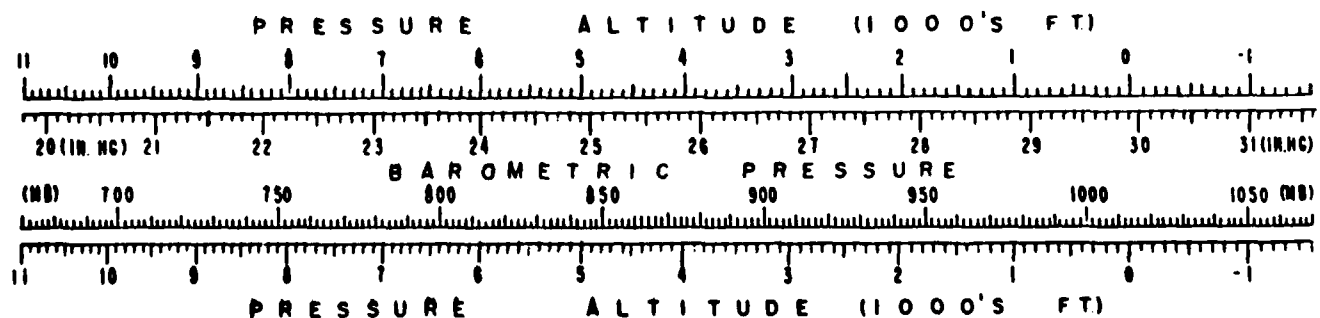
PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

NOTES: Station pressure not reported for all services until late in 1945.
Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.
METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars. DATA NOT AVAILABLE.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



1. METEOROLOGICAL STATION
 ETAC
 WEATHER SERVICE, MAC

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

| | | STATION NAME | | | | | | | | | | | | YEARS | | | | | | | | | | | |
|---------------------------|------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|---------|--|--|--|--|--|--|--|--|--|--|--|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANN. A. | | | | | | | | | | | |
| 1. METEOROLOGICAL STATION | MEAN | | | | | | | | | | | | | | | | | | | | | | | | |
| | S.D. | | | | | | | | | | | | | | | | | | | | | | | | |
| | TOTAL OBS. | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. METEOROLOGICAL STATION | MEAN | | | | | | | | | | | | | | | | | | | | | | | | |
| | S.D. | | | | | | | | | | | | | | | | | | | | | | | | |
| | TOTAL OBS. | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. METEOROLOGICAL STATION | MEAN | .528 | .51728 | .52728 | .53428 | .52328 | .57128 | .66428 | .77028 | .71428 | .54528 | .59328 | .591 | .70.146 | | | | | | | | | | | |
| | S.D. | .17 | .327 | .245 | .195 | .191 | .147 | .137 | .137 | .175 | .258 | .169 | .354 | .247 | | | | | | | | | | | |
| | TOTAL OBS. | | 247 | 276 | 269 | 370 | 266 | 273 | 275 | 266 | 26 | 265 | 271 | 7078 | | | | | | | | | | | |
| 4. METEOROLOGICAL STATION | MEAN | .56728 | .53628 | .59928 | .50228 | .52528 | .67528 | .66928 | .71128 | .72328 | .65828 | .71228 | .67 | .70.354 | | | | | | | | | | | |
| | S.D. | .17 | .328 | .249 | .197 | .191 | .146 | .135 | .138 | .175 | .265 | .171 | .354 | .247 | | | | | | | | | | | |
| | TOTAL OBS. | | 253 | 279 | 269 | 373 | 268 | 279 | 277 | 269 | 265 | 265 | 271 | 7247 | | | | | | | | | | | |
| 5. METEOROLOGICAL STATION | MEAN | .5128 | .50728 | .58628 | .53628 | .51028 | .66128 | .65628 | .69428 | .71428 | .64228 | .59828 | .597 | .70.347 | | | | | | | | | | | |
| | S.D. | .17 | .327 | .247 | .196 | .187 | .145 | .133 | .132 | .171 | .262 | .269 | .355 | .241 | | | | | | | | | | | |
| | TOTAL OBS. | | 252 | 279 | 265 | 373 | 269 | 274 | 279 | 275 | 265 | 267 | 274 | 7270 | | | | | | | | | | | |
| 6. METEOROLOGICAL STATION | MEAN | .54128 | .54628 | .57428 | .57128 | .58528 | .64428 | .63528 | .68328 | .69728 | .63928 | .68428 | .68 | .70.307 | | | | | | | | | | | |
| | S.D. | .31 | .112 | .247 | .191 | .196 | .142 | .134 | .135 | .177 | .258 | .281 | .375 | .243 | | | | | | | | | | | |
| | TOTAL OBS. | 172 | 17 | 237 | 161 | 175 | 178 | 185 | 188 | 165 | 177 | 159 | 166 | 7175 | | | | | | | | | | | |
| 7. METEOROLOGICAL STATION | MEAN | | | | | | | | | | | | | | | | | | | | | | | | |
| | S.D. | | | | | | | | | | | | | | | | | | | | | | | | |
| | TOTAL OBS. | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. METEOROLOGICAL STATION | MEAN | | | | | | | | | | | | | | | | | | | | | | | | |
| | S.D. | | | | | | | | | | | | | | | | | | | | | | | | |
| | TOTAL OBS. | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. METEOROLOGICAL STATION | MEAN | .53328 | .52028 | .5828 | .59028 | .51428 | .66428 | .65828 | .69828 | .71528 | .64728 | .59228 | .795 | .70.145 | | | | | | | | | | | |
| | S.D. | .3 | .325 | .248 | .195 | .189 | .145 | .135 | .135 | .174 | .262 | .271 | .359 | .243 | | | | | | | | | | | |
| | TOTAL OBS. | 43 | 972 | 131 | 947 | 991 | 954 | 1111 | 1120 | 973 | 967 | 962 | 955 | 11807 | | | | | | | | | | | |
| ALL HOURS | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | | | | | | | | | | | | | | |
| S.D. | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL OBS. | | | | | | | | | | | | | | | | | | | | | | | | | |

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